

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 15, 2004, 06:13:46 / Search time 2054 Seconds
(without alignments)
3869.310 Million cell updates/sec

Title: US-10-084-843-46

Perfect score: 327

Sequence: 1 CGGCACGAGAGACCGATGCC.....TACGAAAGAGAACGAGACAA 327

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database:

Listing first 45 summaries

```

EST.*
1: em_estda.*
2: em_esthum.*
3: em_estlin.*
4: em_estnu.*
5: em_estov.*
6: em_estpl.*
7: em_estro.*
8: em_hic.*
9: gb_est1.*
10: gb_est2.*
11: gb_hic.*
12: gb_est3.*
13: gb_est4.*
14: gb_est5.*
15: em_estfun.*
16: em_estom.*
17: em_gss_hum.*
18: em_gss_inv.*
19: em_gss_pln.*
20: em_gss_vit.*
21: em_gss_vit.*
22: em_gss_fun.*
23: em_gss_mus.*
24: em_gss_pro.*
25: em_gss_rtd.*
26: em_gss_phg.*
27: em_gss_vit.*
28: gb_gss1.*
29: gb_gss2.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	ID	Description
1	48	14.7	1203	29	AL106077 Drosophila
2	45.6	13.9	925	29	AL053013 Drosophila
3	44.4	13.6	640	14	CA035945 4002249 B
4	43.8	13.4	450	29	BZ627973 1h56h08.b

RESULT 1	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	TITLE	JOURNAL	COMMENT
CNS015YR	1203 bp	DNA linear	GSS	26-JUL-1999							
Drosophila melanogaster genome survey sequence SP6 end of BAC											
BACN15E12 of DrosBAC library from Drosophila melanogaster (fruit fly), genomic survey sequence.											
AL106077	GI:5619907										
Drosophila melanogaster (fruit fly)											
Drosophila melanogaster											
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.											
1 (bases 1 to 1203)											
Genoscope.											
Direct Submission											
Submitted (23-JUL-1999) Genoscope - Centre National de Sequencage											
BP 191 91006 EVRY cedex - FRANCE (E-mail: seqref@genoscope.cns.fr											
- Web: www.genoscope.cns.fr)											
Determination of this BAC-end sequence was carried out as part of a											
collaboration with the European Drosophila Genome Project (EDGP) -											
http://www.edgp.ebi.ac.uk - This Drosophila melanogaster BAC											
library (Dros BAC) was made by Alain Billand at CERH (Centre											
d'Etude du Polymorphisme Humain) with funding provided by a MRC											
project grant. The DNA was prepared from embryos by Alain Bucheton											
and Genevieve Payan. It has been constructed in the vector											

ALIGNMENTS

FEATURES	SOURCE	Location/Qualifiers
		1.. 1203
		/organism="Drosophila melanogaster"
		/mol_type="genomic DNA"
		/db_xref="taxon:7227"
		/clone="BACN15E12"
		/clone_11b="DrosBAC"
		/plasmid="pBel0BAC11"
		/note="end : SP6"
BASE COUNT	357 a 192 c 162 g 155 t 337 others	
ORIGIN		
Query Match	14.7% Score 48; DB 29; Length 1203;	
Best Local Similarity	32.4% Pred. No. 0.099;	
Matches	57; Conservative 55; Mismatches 64; Indels 0; Gaps 0;	
Qy	88 AGTGTAGATCGACGGCAGGCTTCGTTGTCAGGGCCACTGTGGCCGCCGCGCGGAGACGCGC 147	
Db	991 AGGGRRGCGCCSSCGCCVAGMGRSARVRRGGSGSSSSSCSGCRVGMAGCAG 1050	
Qy	148 CCCAGCGCCGCGTGTGGCTTCCAAAGACGACGCCAATACCAAGAGAGGAACTCGACG 207	
Db	1051 RMVAAVACRSGGSGSMGCGCRGSGAAGGCRSAVGAASRRGGCGMGVAGAGMTRAGM 1110	
Qy	208 AGATCTCAGCAATATTCTGATCGACGGCGCGCTTCATATCTCGAGGCGCCACGAGAG 263	
Db	1111 CRMACRMVCMAGMSSCACSMGGCGRMGCRSRMGSGAGMGCRMGMRMS 1166	
RESULT 2		
CNS0091P/c	925 bp DNA linear GSS 03-JUN-1999	
LOCUS		
DEFINITION	CNS0091P melanogaster genome survey sequence TET3 end of BAC # BACR19D16 of RPCT-98 library from Drosophila melanogaster (fruit fly), genomic survey sequence.	
ACCESSION	AL053013	
VERSION	AL053013.1 GI:4934461	
KEYWORDS	GSS.	
SOURCE		
ORGANISM	Drosophila melanogaster (fruit fly)	
	Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.	
REFERENCE	1 (bases 1 to 925)	
AUTHORS	Genoscope.	
TITLE	Direct Submission	
JOURNAL	Submitted (02-JUN-1999) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : segreifgenoscope.cns.fr - Web : www.genoscope.cns.fr)	
COMMENT	Determination of this BAC-end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP). The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. for further information please see http://www.fruitfly.org The BDGP Drosophila melanogaster BAC library was prepared by Kazutoyo Osoegawa and Aaron Mammoss in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPCT-98 and was constructed by partial EcoRI digestion of Drosophila DNA provided by the BDGP from the isogenic strain Y2; cn bw sp, the same strain used for the BDGP's P1 and EST libraries. A more detailed description of the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BACPAC Resource Center can be found at http://bacpac.med.buffalo.edu/drosophila_bac.htm .	
FEATURES		
SOURCE		
	1.. 925	
	/organism="Drosophila melanogaster"	
	/mol_type="genomic DNA"	
	/db_xref="taxon:7227"	
	/clone="BACR19D16"	
	/clone_11b="RPCT-98"	
	/note="end : TET3"	

ORIGIN	BASE COUNT	120 a	61 c	61 g	172 t	511 others
Query Match	13.9%	Score 45.6;	DB 29;	Length 925;		
Best Local Similarity	15.4%	Pred. No. 0.37;				
Matches	48;	Conservative 135;	Mismatches 129;	Indels 0;	Gaps 0;	
OY	14	CGATGCCGCTACCTCGCCGAGGAGGACGGTAAATTTTCAGACGGATCTCGGCGACCTGAA	73			
Db	844	CGAABCCMCSSSSSCCSASARGVKTRASGAGKRRGGSGGASASISSSCACBSSSSSCS	785			
OY	74	AACCCAGATCGACCGAGGTGAGTCGACGCGAGGTTGCTTGACAGGCGCAGTGCGCGAGCC	133			
Db	784	ASCMASASSSSASASSRRSGGAGGSGASRRSSSSSSASAGSVVSSASSSSSCSSSV	725			
OY	134	GCGCGGAGCGCCGCCCGCCGCGGTGTGTGCGCTTTCAGAGAGCAGCCAAATAGACAA	193			
Db	724	SCSSVASSMCSBSSBSSASASSSSSSASCSACSCCCTSWSCSCTSSASMSABSSSS	665			
OY	194	GCAGGAATCGACGAGATCTCGACGAATATTCGTACGCGCGCGCGCGCAATATCTACGAGGC	253			
Db	664	SSSSCSSSMASASSASASSSSSSSSSSSSSGSACGBMSGGSGSVSASMSSSV	605			
OY	254	CGACGAGACAGCAGCAGCGCGCTGTCTTCGCAATAGGCGCTTTCGACCGCTAATACGA	313			
Db	604	SSSGRRSSGGGGGCGVGGSSSSSSSGSSSVSCSSCGCGRCSGSAALAAASCV	545			
OY	314	AAGAAACGAGC	325			
Db	544	ASCGMCGKSKS	533			
RESULT 3						
LOCUS	CA035945					
DEFINITION	4002249 BARC SBOV Bos taurus cDNA clone SBOV_83G24 5', mRNA					
ACCESSION	CA035945					
VERSION	CA035945.1					
KEYWORDS	EST.					
SOURCE	Bos taurus (cow)					
ORGANISM	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovidae; Bovinae; Bos.					
REFERENCE	1 (bases 1 to 640)					
AUTHORS	Sonstegard,T., Capuco,A.V., White,J., Van Tassell,C.P., Connor,E.E., Cho,J., Sultana,R., Shade,L., Wray,D.E., Wells,K.D. and Quackenbush,J.					
TITLE	Analysis of bovine mammary gland EST and functional annotation of the Bos taurus gene index					
JOURNAL	Mamm. Genome 13 (7), 373-379 (2002)					
MEDLINE	22135956					
PUBMED	12140684					
COMMENT	Contact: Sonstegard TS USDA, ARS, Beltsville Agricultural Research Center Bldg. 200 Rm 2A, Beltsville, MD 20705, USA Tel: 301 504 8416 Fax: 301 504 8414 Email: tads@ps1.barc.usda.gov Single pass sequencing. Bases called and trimmed with phred 0.000325 using options -trim_al -trim_faata. Vector identified by cross match using options -mismatch 12 -minscore 12 Plate: 83 row: G column: 24 Seq primer: TGAGCGGATACCAATTCACACAG High quality/sequence stop: 640. Location/Qualifiers 1. 640 /organism="Bos taurus" /mol_type="mRNA" /db_xref="taxon:9913" /clone="SBOV_83G24" /issue_type="pooled"					
FEATURES						
source						

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/lab host="DH10B"
/clone lib="BARC 5BOV"
/notes="Vector: PCMV SPORTE; Site 1: NotI; Site 2: SalI;
Library made from pooled mRNA isolated from mammary
tissues at eight physiological, developmental, and disease
states."
BASE COUNT      99 a      244 c      210 g      87 t
ORIGIN
Query Match      13.6%; Score 44.4; DB 14; Length 640;
Best Local Similarity 49.6%; Pred. No. 0.69;
Matches 114; Conservative 0; Mismatches 116; Indels 0; Gaps 0;
QY      61 CCGGCGACCTGAAACCCAGATGACACGAGTGTGATGACGAGGATTCTTCTGACAGGCC 120
      287 CCGCGCGCGCTCATCTCAGACGACGACGACGACGAGTGGGAGCGCCCTGCTGGA 346
QY      121 AGTGGCGCGCGCGCGGAGCGCGCCGACGCGCGGTGTGCGCTTCCAGAGACG 180
      347 AGCGGCGCGCGCGCGCGCGCTGACGCGCTGACCAAGGCCGACGCTACAGGCTT 406
DB      181 CCAATAGCAGAGACGAGAACTGACAGATCTGACGAAATTTCTCAGCGCGGCTTC 240
      407 GCAGGCGCGCGGAGCGAGCGCGCTGCGCTGACCAAGCTGACGAGAGCGCGCGC 466
QY      241 AATAGTCAAGCGCGCGCGAGCGAGCGAGCGCGCTGTCTGCAATG 290
      467 GGGAGAGCGCGCGCGCGCGCGAGCGCGCGCGAGACCTGAGAGCAATGTG 516
DB
RESULT 4
BZ627973/c      450 bp      DNA      linear      GSS 17-JAN-2003
LOCUS      ih56n08.b1 WGS-Sbicolorf (DH5a methyl filtered) Sorghum bicolor
DEFINITION      BZ627973
GENOMIC CLONE      ih56n08 5', genomic survey sequence.
ACCESSION      BZ627973.1 GI:27780058
VERSION      GSS.
KEYWORDS      Sorghum bicolor (sorghum)
SOURCE      Sorghum bicolor
ORGANISM      Sorghum bicolor
REFERENCE      Rabinowicz,P.D., O'Shaughnessy,A.L., Ballja,V., Dechia,N.,
AUTHORS      Katzenburger,F., King,L., Miller,B., Muller,S., Nascimeto,L.,
      Zutavern,T., Palmer,L., McCombie,W.R. and Martienssen,R.A.
      Genomic shotgun sequences from Sorghum bicolor (methyl-filtered)
      1 (bases 1 to 450)
      Unpublished
      Contact: W. Richard McCombie
      Lita Annenberg Hazen Genome Sequencing Center
      Cold Spring Harbor Laboratory
      PO Box 100, Cold Spring Harbor, NY 11724, USA
      Tel: 516 367 8884
      Fax: 516 367 8874
      Email: mcombie@cshl.org
      Plate: ih56 row: h column: 08
      Seq primer: -21M13UnivFwd
      Class: shotgun
      High quality sequence stop: 465.
      Location/Qualifiers
        1..450
          /organism="Sorghum bicolor"
          /mol_type="genomic DNA"
          /db_xref="taxon:4558"
          /clone="ih56n08"
          /lab host="DH5a"
          /note="Site 1: Xba I; Site 2: Xba I; The vector was
          digested with XbaI and one nucleotide was added by fill in
          in the recessive 3' end. The genomic DNA was nebulized,
          end repaired, adaptor ligated and size fractionated using
          sephadex. The resulting fragments were between 0.8 and 3

```

```

kb and were cloned into the vector (.x/y reads in M13mp19,
.b/g reads in pUC19). The same ligation was transformed
into DH5a."
BASE COUNT      45 a      187 c      132 g      86 t
ORIGIN
Query Match      13.4%; Score 43.8; DB 29; Length 450;
Best Local Similarity 56.6%; Pred. No. 0.91;
Matches 81; Conservative 0; Mismatches 62; Indels 0; Gaps 0;
QY      62 CCGCGACCTGAAACCCAGATGACACGAGTGTGACGAGGCTTGTGAGGCGCA 121
      209 CGACGCGGTGGAGAGAGAGCGCGAGACGAGTGTGCGACAGGCGAGGACGT 150
QY      122 GTGCGCGCGCGCGCGGAGCGCGCCGACGCGCGGTGTGCGCTTCCAGAGACG 181
      149 GCGCGCGCGCGCGCGCGAGAGGCGCGAGAGAGAGGCGCGCGCGTGTGCGAGCART 90
DB      182 CCAATAGCAGAGACGAGAACTCG 204
      89 CGAGGAGAGAGTACGTACAG 67
DB
RESULT 5
BZ628314/c      627 bp      DNA      linear      GSS 17-JAN-2003
LOCUS      ih59c08.b1 WGS-Sbicolorf (DH5a methyl filtered) Sorghum bicolor
DEFINITION      BZ628314
GENOMIC CLONE      ih59c08 5', genomic survey sequence.
ACCESSION      BZ628314.1 GI:27780399
VERSION      GSS.
KEYWORDS      Sorghum bicolor (sorghum)
SOURCE      Sorghum bicolor
ORGANISM      Sorghum bicolor
REFERENCE      Rabinowicz,P.D., O'Shaughnessy,A.L., Ballja,V., Dechia,N.,
AUTHORS      Katzenburger,F., King,L., Miller,B., Muller,S., Nascimeto,L.,
      Zutavern,T., Palmer,L., McCombie,W.R. and Martienssen,R.A.
      Genomic shotgun sequences from Sorghum bicolor (methyl-filtered)
      1 (bases 1 to 627)
      Unpublished
      Contact: W. Richard McCombie
      Lita Annenberg Hazen Genome Sequencing Center
      Cold Spring Harbor Laboratory
      PO Box 100, Cold Spring Harbor, NY 11724, USA
      Tel: 516 367 8884
      Fax: 516 367 8874
      Email: mcombie@cshl.org
      Plate: ih59 row: c column: 08
      Seq primer: -21M13UnivFwd
      Class: shotgun
      High quality sequence stop: 627.
      Location/Qualifiers
        1..627
          /organism="Sorghum bicolor"
          /mol_type="genomic DNA"
          /db_xref="taxon:4558"
          /clone="ih59c08"
          /lab host="DH5a"
          /note="Site 1: Xba I; Site 2: Xba I; The vector was
          digested with XbaI and one nucleotide was added by fill in
          in the recessive 3' end. The genomic DNA was nebulized,
          end repaired, adaptor ligated and size fractionated using
          sephadex. The resulting fragments were between 0.8 and 3
          kb and were cloned into the vector (.x/y reads in M13mp19,
          .b/g reads in pUC19). The same ligation was transformed
          into DH5a."
BASE COUNT      76 a      277 c      155 g      119 t
ORIGIN
Query Match      13.4%; Score 43.8; DB 29; Length 627;

```

Best Local Similarity	56.6%	Pred. No. 0.96	Matches	81	Conservative	0	Mismatches	62	Indels	0	Gaps	0			
Oy	62	CGCGACCTGAAACCAGATGCACAGGTGAGTGCACGCGAGGTTCTTGACAGGCCA	121	Db	534	CGACGCCGTGGGGAGGAAGGCGAGACGAGACGATCGGCTGTGCACGAGGGGACAGAGCT	475	Oy	122	GTGGCGCGCGCGCGGGGGAGCGCGCCCGACCGCGCGGTGTGTGCGCTTCCAAAGACAGC	181	Db	474	GCGGCGGCGCGCGCGCGAGAAAGGCCACGAGAGAGGCGCGCGCGGTGTGCGCGACATC	415
Oy	182	CAATPACGAGACGAGAACTCG	204	Db	414	CGAGAGAGAGAAATACCTACACG	392	RESULT 6							
CB622445		523 bp	mRNA					LOCUS	CB622445						
DEFINITION	OS1IEA09C13.f OS1IEA Oryza sativa (indica cultivar-group) cDNA							ACCESSION	CB622445						
VERSION	CB622445.1	GI:29617433						KEYWORDS	EST.						
SOURCE	Oryza sativa (indica cultivar-group)							ORGANISM	Oryza sativa (indica cultivar-group)						
	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophytes; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzaceae; Oryza.														
REFERENCE	1 (bases 1 to 523)														
AUTHORS	Jantaauriyart,C., Lu,G., Gowda,M., Hatfield,J., Zhou,B., Mazur,E., Kudrna,D., Dean,R., Soderlund,C., Wing,R. and Wang,G.														
TITLE	Large-scale identification of ESTs involved in the interaction between rice and Magnaporthe oryzae														
JOURNAL	Unpublished														
COMMENT	Contact: Rod Wing Arizona Genomics Institute University of Arizona Biological Sciences West, 448A, P.O. Box 210088, Tucson, AZ 85721-0088, USA Tel: 520 626 3967 Fax: 520 621 9288 Email: http://genome.arizona.edu														
FEATURES	PCR primers FORWARD: gta aaa cga cgg cca gtc BACKWARD: gga aac agc tat gac cat g Plate: 09 row: C column: 13 Seq primer: gta aaa cga cgg cca gtc. Location/Qualifiers 1..523 /organism="Oryza sativa (indica cultivar-group)" /mol_type="mRNA" /culivar="IR36" /db_xref="taxon:39946" /clone="OS1IEA09C13" /tissue_type="Leaf" /dev_stage="3 week" /lab_host="DH10B" /clone_lib="OS1IEA" /note="Vector: pBlueScript II KS +, site_1: EcoRI, site_2 XhoI; Lesion Mimic SPL 11"														
BASE COUNT	99 a	160 c	184 g	80 t											
ORIGIN															
Query Match	13.3%	Score 43.4	DB 14	Length 523											
Best Local Similarity	53.9%	Pred. No. 1.2	76	Indels	0	Gaps	0								
Matches	89	Conservative	0	Mismatches	0										
Oy	30	CGCGAGAGGAGGATTAATTTTCGACGGATCTTCGCGCGACTTGAAACCAGATGCACGAG	89	Db	123	GCGATGGCGCGCGAGAACTACTGAGAGTTTCTCCGACGCGCGACACAAACAGGCTTTGGTG	182	Oy	90	GTGAGTGCAGCGCAGGTTCTGTCGAGGGCCAGTGGCGCGCGCGCGCGGAGCGGCCCC	149				

Db	183	GCGGCGGGCGCCGCCGCGCGGGATGCCCCCACCAGCGCGGACTGTGCACGGCCGAC	242
Oy	150	CAGGCCCGGTGTGTGCGCTTCCAAGAAGCACCAATTAAGCGAAG	194
Db	243	CAGCCCGCGGCGCATGCCCCCGCAGCGCCGCAATGCGCGACAG	287
RESULT 7			
	CB626968		
DEFINITION			
	OSIIEB01J05.f OSIIEB Oryza sativa (indica cultivar-group) cDNA		
ACCESSION			
	LOCUS CB626968		
VERSION			
	CB626968.1 GI:29621957		
SOURCE			
	EST.		
ORGANISM			
	Oryza sativa (indica cultivar-group)		
	Oryza sativa (indica cultivar-group)		
	Bukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta;		
	Spermatophytes, Magnoliophyta; Liliopsida; Poales; Poaceae;		
	Ehmeriales, Oryzaceae, Oryza.		
	1 (bases 1 to 531)		
REFERENCE	Jantaauriyarat,C., Lu,G., Gowda,M., Hatfield,J., Zhou,B., Mazur,E.,		
AUTHORS	Kudrna,D., Dean,R., Soderlund,C., Wang,R. and Wang,G.		
TITLE	Large-scale identification of ESTs involved in the interaction between rice and Magnaporthe grisea		
JOURNAL	Unpublished		
COMMENT	Contact: Rod Wing Arizona Genomics Institute University of Arizona Biological Sciences West, 448A, P.O. Box 210088, Tucson, AZ 85721-0088, USA Tel: 520 626 3967 Fax: 520 621 9288 Email: http://genome.arizona.edu		
PCR Primers			
	FORWARD: gta aaa cga cgg cca gtg		
	BACKWARD: gga aac agc tat gac cat g		
	Plate: 01 row: J column: 05		
	Seq primer: gta aaa cga cgg cca gtg.		
Location/Qualifiers			
	1..531		
FEATURES	/organism="Oryza sativa (indica cultivar-group)"		
source	/mol_type="mRNA"		
	/cultivar="IR36"		
	/db_xref="taxon:39946"		
	/clone="OSIIEB01J05"		
	/tissue type="Leaf"		
	/dev_stage="3 week"		
	/lab_host="DH10B"		
	/clone_lib="OSIIEB"		
	/note="Vector: pluescript II KS +; Site 1: EcoRI, Site 2:		
	XhoI; 24 hrs after inoculation with Rice Blast (Po6-6-3)"		
BASE COUNT			
	99 a 162 c 192 g 78 t		
ORIGIN			
Query Match	13.3%	Score 43.4;	DB 14; Length 531;
Best Local Similarity	53.9%	Pred. No. 1.2;	
Matches	89;	Conservative 0;	Mismatches 76; Indels 0; Gaps 0;
Oy	30	GCGCAGGAGGAGGATAATTTCGACGCGATCCGCGCACTGAATAACCCAGATGCACGAC	89
Db	112	GCGATGGCGCCGCGAAATTACTGAGAGTTGCCCCACGCGCGGACGACGACGACCATGTG	171
Oy	90	GTGAGTTCGACGCGAGGTTCTTGACAGGCGCATGTGGCGCGCGCGCGGAGCGGCCGCC	149
Db	172	GCGGCGGCGCGCGCGCGCGGCGGAGATGGCCCCCAGCGGCGGAGCTGTGTGCACGCGCGGC	231
Oy	150	CAGCCCGCGGTGTGCGCTTCCAAGAAGCACCAATTAAGCGAAG	194
Db	232	CAGCGCCGCGGCGCATGCCCCCGCAGCGCCGCAATGCGCGACGAG	276

RESULT 8
BU647014
LOCUS
DEFINITION 112055B09.Y1 C. reinhardtii CC-1690 (mt+), CC-1691 (mt-), Gamete (normalized), Lambda Zap II Chlamydomonas reinhardtii cDNA, mRNA

ACCESSION BU647014 GI:23359194
VERSION BU647014
KEYWORDS EST
SOURCE Chlamydomonas reinhardtii
ORGANISM Chlamydomonas reinhardtii
Eukaryota; Viridiplantae; Chlorophyta; Chlorophyceae; Volvocales; Chlamydomonadaceae; Chlamydomonas.

REFERENCE 1 (bases 1 to 636)
Grossman, A., Chang, C.-M., Davies, J., Harris, E., Hauser, C., Lefebvre, P., McDermott, J.P., Shrago, J., Silflow, C. and Stern, D.,
Analysis of the Chlamydomonas reinhardtii Genome: A Model, Unicellular System for Analyzing Gene Function and Regulation in Vascular Plants. Project: 1112
Unpublished
Contact: Charles Hauser
DCMB Box 91000
Duke University
Durham, NC 27708-1000
Tel: 919 613 8159
Fax: 919 613 8177
Email: chauser@duke.edu.

FEATURES
source
1. 636
/organism="Chlamydomonas reinhardtii"
/mol_type="mRNA"
/strain="219r (CC-1690 wild type mt+) & 6145C (CC-1691 wild type mt-)"
/db_xref="taxon:3055"
/clone_lib="C. reinhardtii CC-1690 (mt+), CC-1691 (mt-), Gamete (normalized), Lambda Zap II"
/note="Vector: pBluescript II SK-; Site 1: EcoRI; Site 2: XhoI; Gamete library was constructed by Hui Zhao, Min Lu, Jeffrey McDermott, William J. Snell and John Davies.
Strain 219r cells (CC-1690, mating type plus) and strain 6145C cells (CC-1691, mating type minus) that had been growing on a light-dark cycle (13:11 L/D) in R-medium (Sager and Granick) were separately transferred into nitrogen-free medium at 8 hours into the light period. PolyA mRNA was purified from each sample every 2 hours for the next 18 hours. The mRNA was pooled and used for cDNA synthesis. The cDNA was directionally cloned into Lambda Zap II (Stratagene) in the EcoRI (5') and XhoI (3') sites. pBluescript II SK- plasmids were excised from the Lambda Zap clones by superinfection with ExSist (Stratagene) phage. The library was normalized using method 4 described in Bonaldo et al., (1996) Genome Research 6: 791-806."

BASE COUNT 103 a 198 c 261 g 74 t
ORIGIN

Query Match 13.3%; Score 43.4; DB 13; Length 636;
Best Local Similarity 48.9%; Pred. No. 1.2;
Matches 116; Conservative 0; Mismatches 121; Indels 0; Gaps 0;

45 AATTTCAGCGGATCTCCGCGACCTGAAACCAAGATCGACGATGAGTCAGCGCA 104
|||
339 AAGTGGAGAGATTCGCGGCGGAGACTCCCGCGACGACCCCGAGCTCGAGCGGTGGC 398
|||
105 GATTCTGTCAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 164
|||
399 GACCCCGCGCGCGCGCGAGCTGTTGTGAGAGTGTGCGGCGGCGGCGGCGG 458
|||
165 CGCTTCAGAAAGAGCAATTAAGCAGAGCAAGCAAGCAATCTGAGCAATATT 224
|||
459 GCGCTGAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 518
|||
225 CGTCAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 281
|||

Db 519 CGGAGCCGACCTCTCCACGACGAGCGGCGGCGGCGGCGGCGGCGGCGG 575
|||
RESULT 9
BX424977
LOCUS
DEFINITION BX424977 Homo sapiens PLACENTA Homo sapiens cDNA clone CLOB005ZH04 3-PRIME, mRNA sequence.
ACCESSION BX424977 GI:30784421
VERSION BX424977
KEYWORDS EST
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 515)
Li, W.-B., Gruber, C., Jessee, J. and Polyes, D.
Full-length cDNA libraries and normalization
Unpublished
Contact: Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by life technologies, a division of Invitrogen. This sequence belongs to sequence cluster 6304.f. For more information about this cluster, see
http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CLOB005ZH04FPLcluster6304.f. Contact: Feng Liang Email: fliang@litech.com URL: http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue, Genoscope sequence ID: CLOB005ZH04FPL.

FEATURES
source
1. 515
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone_lib="CLOB005ZH04"
/tissue_type="PLACENTA"
/clone_lib="Homo sapiens PLACENTA"
/note="Vector: pCMVSPORT 6; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library was not normalized."

BASE COUNT 44 a 22 c 56 g 173 t 220 others
ORIGIN

Query Match 13.2%; Score 43.2; DB 13; Length 515;
Best Local Similarity 11.6%; Pred. No. 1.3;
Matches 22; Conservative 98; Mismatches 70; Indels 0; Gaps 0;

92 GAGTCAGCGGCGGCTTCGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 151
|||
292 GCGSS 351
|||
152 GCGCGGCGGCTGCTCCAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 211
|||
352 SSS 411
|||
212 CTGAGCAATATTCTGTCAGCGCGGCGGCTTCATCTGAGGCGGAGAGAGAGCA 271
|||
412 SSS 471
|||
272 GCGCTGTTC 281
|||
472 SSSSSSSSSSV 481
|||

RESULT 10
CB629564
LOCUS
DEFINITION OSIIb05014.f OSIEB Oryza sativa (indica cultivar-group) cDNA

ACCESSION clone OSIEB05014 5', mRNA sequence.
 VERSION CB629564
 KEYWORDS GI:2962453
 SOURCE EST.
 ORGANISM Oryza sativa (indica cultivar-group)
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Eubacteriales; Oryzaceae; Oryza.
 1 (bases 1 to 749)
 Jantarurayarat, C., Lu, G., Gowda, M., Hatfield, J., Zhou, B., Mazur, E., Kridma, D., Dean, R., Soderlund, C., Wang, R. and Wang, G.
 Large-scale identification of ESTs involved in the interaction between rice and Magnaporthe grisea
 Unpublished
 Contact: Rod Wing
 Arizona Genomics Institute
 University of Arizona
 Biological Sciences West, 448A, P.O. Box 210088, Tucson, AZ 85721-0088, USA
 Tel: 520 626 3967
 Fax: 520 621 9288
 Email: http://genome.arizona.edu
 PCR Primers
 FORWARD: gta aac cga cgg cca gtc
 BACKWARD: gga aac agc tat gac cat g
 Plate: 05 row: 0 column: 14
 Seq primer: gta aac cga cgg cca gtc.
 Location/Qualifiers
 1..749
 /organism="Oryza sativa (indica cultivar-group)"
 /mol_type="mRNA"
 /cultivar="IR36"
 /db_xref="taxon:39946"
 /clone="OSIEB05014"
 /tissue_type="Leaf"
 /dev_stage="3 week"
 /lab_host="DH10B"
 /clone_id="OSIEB"
 /note="Vector: pBluescript II KS +; Site 1: EcoRI; Site 2: XhoI; 24 hrs after inoculation with Rice Blast (P06-6-3)"
 BASE COUNT 162 a 198 c 285 g 104 t
 ORIGIN
 Query Match 13.0%; Score 42.6; DB 14; Length 749;
 Best Local Similarity 51.3%; Pred. No. 2;
 Matches 99; Conservative 0; Mismatches 94; Indels 0; Gaps 0;
 QY 77 CAGATCGACGAGTGTGAGTGCAGCGCAGGTTGTCAGAGGCGCAGCGCGCGC 136
 Db 266 CGAGGCGACCTGGTCAACCGCGCGCGCGCGCGCGCAGCAGCAGTGCACGAGG 325
 QY 137 GGGAGCG 196
 Db 326 CGGATTCGCCCG 385
 QY 197 GGAAGTCGACGAGATCTCGACGAATATTCGTCAAGCGCGCGCGCGCGCGCG 256
 Db 386 CGACATCGAGAGGCTCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTCA 445
 QY 257 CGAGAGCAGCAGCAG 269
 Db 446 GAGCTTCAGCAG 458
 RESULT 11
 CDS0175Y 1101 bp DNA linear GSS 26-JUL-1999
 LOCUS Drosophila melanogaster genome survey sequence SP6 end of BAC
 DEFINITION BACN37108 of Drosophila library from Drosophila melanogaster (fruit fly), genomic survey sequence.
 ACCESSION AL108460
 VERSION AL108460.1 GI:5628764

KEYWORDS GSS.
 SOURCE Drosophila melanogaster (fruit fly)
 ORGANISM Drosophila melanogaster
 Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
 1 (bases 1 to 1101)
 Genoscope.
 Direct Submission
 Submitted (23-JUL-1999) Genoscope - Centre National de Sequencage
 BP 191 91006 EVRY cedex - FRANCE (E-mail: seqref@genoscope.cns.fr
 - Web: www.genoscope.cns.fr)
 Determination of this BAC-end sequence was carried out as part of a collaboration with the European Drosophila Genome Project (EDGP) - http://www.edgp.ebi.ac.uk - This Drosophila melanogaster BAC library (Dros BAC) was made by Alain Billaud at CEPH (Centre d'Etude du Polymorphisme Humain) with funding provided by a MRC project grant. The DNA was prepared from embryos by Alain Bucheton and Genevieve Payan. It has been constructed in the vector pBelOBAC11.
 Location/Qualifiers
 1..1101
 /organism="Drosophila melanogaster"
 /mol_type="genomic DNA"
 /db_xref="taxon:7227"
 /clone="BACN37108"
 /clone_id="DrosBAC"
 /plasmid="pBelOBAC11"
 /note="end: SP6"
 BASE COUNT 254 a 176 c 160 g 152 t 359 others
 ORIGIN
 Query Match 13.0%; Score 42.6; DB 29; Length 1101;
 Best Local Similarity 17.6%; Pred. No. 2;
 Matches 52; Conservative 125; Mismatches 118; Indels 0; Gaps 0;
 QY 25 CCTCGCGCAGAGCAGCGATTTTCGAGCGGATCTCCGCGACCTAAACCAATCG 84
 Db 707 CCAMACSS 766
 QY 85 ACACGATGAGTGCAGCGCAGGTTGTCAGAGGCGCAGCGCGCGCGCGCGCG 144
 Db 767 GGGGCGCAGGCGCAGCGCAGGTTGTCAGAGGCGCAGCGCGCGCGCGCGCG 826
 QY 145 CCGCCG 204
 Db 827 MSKXASAVASCAVASGMSAGAVSSSSSSSSSSSSSSSSSSSSSSSSSSSS 886
 QY 205 ACAGATCTCGACGAATATTCGTCAAGCGCGCGCGCGCGCGCGCGCGCG 264
 Db 887 ASSSSASASMAVAVAVAVAVAVAVAVAVAVAVAVAVAVAVAVAVAVA 946
 QY 265 AGCAGCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 319
 Db 947 SSSSVSSSSASVSVASVSVASVSVASVSVASVSVASVSVASVSVASV 1001
 RESULT 12
 LOCUS BX407619 1000 bp mRNA linear EST 15-MAY-2003
 DEFINITION BX407619 Homo sapiens PLACENTA Homo sapiens cDNA clone CSDB005Y119
 5-PRIME, mRNA sequence.
 ACCESSION BX407619
 VERSION BX407619.1 GI:30762809
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 1 (bases 1 to 1000)
 REFERENCE Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
 TITLE Full-length cDNA libraries and normalization
 JOURNAL Unpublished

BASE COUNT 92 a 160 c 179 g 62 t
 ORIGIN /dev stage="tri-nucleate pollen stage"
 /clone_11b="Oryza sativa Koshihikari p1et11"

Query Match 12.8%; Score 41.8; DB 9; Length 493;
 Best Local Similarity 53.3%; Pred. No. 2.9;
 Matches 88; Conservative 0; Mismatches 77; Indels 0; Gaps 0;

Oy 30 GCGCAGAGGACAGTAATTTCGAGCGGATCTCCGCGACCTGAAAACCCAGATCGACGAG 89
 Db 120 GCGATGGCCCGCCGAGAACTACTGAGGTTGCGCGACGCGCGACGAGCCATGCTG 179
 Oy 90 GTGAGTTCGACGCGCAGGTTCTTTCAGAGGCGCGCGCGCGCGCGCGCGCGCGCGCC 149
 Db 180 GCG 239
 Oy 150 CAGGCG 194
 Db 240 CAGGCG 284

RESULT 15
 CB671388 594 bp mRNA linear EST 09-APR-2003
 LOCUS OSJNE04P05.f OSJNE Oryza sativa (japonica cultivar-group) cDNA
 DEFINITION clone OSJNE04P05 5', mRNA sequence.

ACCESSION CB671388 GI:29675113
 VERSION CB671388.1
 SOURCE EST.
 ORGANISM Oryza sativa (japonica cultivar-group)
 Oryza sativa (japonica cultivar-group)
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
 Emaritoidae; Oryzae; Oryza.

REFERENCE 1 (bases 1 to 594)
 Jantaauriyarat,C., Lu,G., Gowda,M., Hatfield,V., Zhou,B., Mazur,E.,
 Kudrna,D., Dean,R., Soderlund,C., Wing,R. and Wang,G.

AUTHORS Large-scale identification of ESTs involved in the interaction
 between rice and Magnaporthe grisea
 TITLE Unpublished
 JOURNAL Contact: Rod Wing
 COMMENT Arizona Genomics Institute
 Biological Sciences West, 448B, P.O. Box 210088, Tucson, AZ
 85721-0088, USA
 Tel: 520 626 3967
 Fax: 520 621 9288
 Email: http://genome.arizona.edu

PCR Primers
 FORWARD: gta aaa cga cgg cca gtc
 BACKWARD: gga aac agc tat gac cat g
 Plate: 04 row: P column: 05
 Seq primer: gta aaa cga cgg cca gtc.
 Location/Qualifiers

FEATURES
 source 1..594
 /organism="Oryza sativa (japonica cultivar-group)"
 /mol_type="mRNA"
 /cultivar="Nipponbare"
 /db_xref="taxon:39947"
 /clone="OSJNE04P05"
 /issue_type="leaf"
 /dev_stage="3 week"
 /lab_host="DH10B"
 /clone_11b="OSJNE"
 /note="Vector: Bluescript II KS +; Site 1: EcoRI, Site 2:
 XhoI; 24 hrs after inoculation with Rice Blast (70-15)"

BASE COUNT 114 a 174 c 213 g 93 t
 ORIGIN

Query Match 12.8%; Score 41.8; DB 14; Length 594;
 Best Local Similarity 53.3%; Pred. No. 3;
 Matches 88; Conservative 0; Mismatches 77; Indels 0; Gaps 0;

Oy 30 GCGCAGAGGACAGTAATTTCGAGCGGATCTCCGCGACCTGAAAACCCAGATCGACGAG 89
 Db 126 GCGATGGCCCGCCGAGAACTACTGAGGTTGCGCGACGCGCGACGAGCCATGCTG 185
 Oy 90 GTGAGTTCGACGCGCAGGTTCTTTCAGAGGCGCGCGCGCGCGCGCGCGCGCGCC 149
 Db 186 GCG 245
 Oy 150 CAGGCG 194
 Db 246 CAGGCG 290

Search completed: January 15, 2004, 07:21:29
 Job time : 2062 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 15, 2004, 06:13:46 ; Search time 258 Seconds
(without alignments)
3421.381 Million cell updates/sec

Title: US-10-084-843-46

Perfect score: 327
Sequence: 1 CGGACGAGAGACCGATGCC.....TACGAAAGAAACGAGCAA 327

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

N Geneseq_19Jun03:*

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2: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*
3: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*
4: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT:*
5: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT:*
6: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT:*
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8: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1987.DAT:*
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10: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1989.DAT:*
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12: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT:*
13: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT:*
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25: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	327	100.0	327	18	AAAT91509
2	327	100.0	327	18	AAAT91509
3	327	100.0	327	19	AAV64492
4	327	100.0	327	19	AAV44384
5	327	100.0	327	20	AAZ19294
6	327	100.0	327	20	AAZ19082
7	327	100.0	327	24	AAZ47094
8	327	100.0	327	24	AAZ8352

9	318	97.2	641	22	AAH75863	Mycobacterium tube
10	318	97.2	1616	19	AAV64507	M. tuberculosis im
11	318	97.2	1616	19	AAV44398	Mycobacterium tube
12	318	97.2	1616	20	AAZ19308	M. tuberculosis an
13	318	97.2	1616	20	AAZ19096	M. tuberculosis re
14	318	97.2	1617	24	ABS63323	M. tuberculosis CD
15	318	97.2	16885	17	AAZ13535	BCG deletion regio
16	318	97.2	4403765	22	AAI99683	Mycobacterium tube
17	318	97.2	441529	22	AAI99682	Mycobacterium tube
18	316.4	96.8	1070	20	AAZ29176	M. tuberculosis re
19	316.4	96.8	1278	20	AAZ29168	Regulatory polynuc
20	290	88.7	303	22	AAH8038	Mycobacterium tube
21	287.4	87.9	302	20	AAZ29171	LHP polypeptide en
22	287.4	87.9	2412	20	AAZ19457	M. tuberculosis fu
23	287.4	87.9	2412	20	AAZ19245	M. tuberculosis re
24	287.4	87.9	7676	19	AAV64567	M. tuberculosis fu
25	287.4	87.9	7676	19	AAV55801	Mycobacterium anti
26	287.4	87.9	7676	20	AAZ20198	Mycobacterium tube
27	287.4	87.9	7676	20	AAZ19368	M. tuberculosis fu
28	287.4	87.9	7676	20	AAZ19156	M. tuberculosis fu
29	287.4	87.9	7676	24	AAK14132	DNA encoding antic
30	286.8	87.7	3572	20	AAZ19454	M. tuberculosis an
31	286.8	87.7	3572	20	AAZ19242	M. tuberculosis re
32	286	87.5	8217	22	AAZ03795	M. tuberculosis ve
33	272	83.2	396	18	AAZ19526	Mycobacterium tube
34	272	83.2	396	18	AAZ19460	Mycobacterium tube
35	272	83.2	396	19	AAV64509	M. tuberculosis im
36	272	83.2	396	19	AAV44400	Mycobacterium tube
37	272	83.2	396	20	AAZ19310	M. tuberculosis an
38	272	83.2	396	20	AAZ19098	M. tuberculosis re
39	272	83.2	396	18	AAZ19527	Mycobacterium tube
40	272	83.2	387	18	AAZ19461	Mycobacterium tube
41	46	14.1	387	19	AAV64510	M. tuberculosis im
42	46	14.1	387	19	AAV44401	Mycobacterium tube
43	46	14.1	387	20	AAZ19311	M. tuberculosis an
44	46	14.1	387	20	AAZ19099	M. tuberculosis re
45	44	13.5	327	22	AAH75860	Mycobacterium tube

ALIGNMENTS

RESULT 1	
AAAT91509	
ID	AAAT91509 standard; DNA; 327 BP.
AC	AAAT91509;
DT	08-JAN-1998 (first entry)
DE	Mycobacterium tuberculosis antigen Tb38-1 encoding DNA.
KW	Antigen; immunogen; vaccine; tuberculosis; non specific adjuvant;
OS	skin testing; M.tuberculosis; ss.
XX	Mycobacterium tuberculosis.
XX	
FH	Key
FT	CDS
FT	Location/Qualifiers
FT	12.299
FT	/tag= a
FT	/product= Antigen_Tb38-1
PN	WO9709428-A2.
XX	
PD	13-MAR-1997.
XX	
PF	30-AUG-1996;
XX	96WO-US14674.
XX	
PR	12-JUL-1996;
XX	96US-0680574.
PR	01-SEP-1995;
XX	95US-0523436.
PR	22-SEP-1995;
XX	95US-0533634.
PR	22-MAR-1996;
XX	96US-0620874.
PR	05-JUN-1996;
XX	96US-0659683.

XX (CORI-) CORIXA CORP.
XX Campos-neto A, Dillon DC, Houghton R, Reed SG, Skelky YAW;
XX Twardzik DR, Vedvick TH;
XX WPI: 1997-192903/17.
XX DR P-PSDB; AAM32444.
XX
XX New immunogenic polypeptide(s) from Mycobacterium tuberculosis - are
XX PT useful in vaccines for prevention or treatment of tuberculosis, also
XX PT for diagnosis
XX
XX Claim 4; Page 83-84; 168pp; English.
XX
XX A new immunogenic polypeptide has been developed comprising an
XX CC immunogenic part of a soluble Mycobacterium tuberculosis antigen (or
XX CC its variant differing only in conservative substitutions and/or
XX CC modifications). The present sequence encodes a specifically claimed
XX CC M. tuberculosis antigen, Tb38-1. The immunogenic protein, and fusion
XX CC proteins containing one or more of the proteins or one of the proteins
XX CC plus ESAT-6, are useful in vaccines, preferably when formulated with a
XX CC non-specific adjuvant, to induce an immune response against
XX CC M. tuberculosis (for treatment or prevention).
XX
SQ Sequence 327 BP; 79 A; 95 C; 111 G; 42 T; 0 other;

Query Match 100.0%; Score 327; DB 18; Length 327;
Best Local Similarity 100.0%; Pred. No. 6.6e-72;
Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGACGAGAGACCGATGCGCTACCTCGCGGAGAGGAGGATATTGAGGGATCT 60
DB 1 CGGACGAGAGACCGATGCGCTACCTCGCGGAGAGGAGGATATTGAGGGATCT 60
QY 61 CCGGCGACTGTAACCAAGATGAGAGGATGAGCGGAGGATGCTTGGAGGGCC 120
DB 61 CCGGCGACTGTAACCAAGATGAGAGGATGAGCGGAGGATGCTTGGAGGGCC 120
QY 121 AGTGGCGCGGCGCGGAGCGCGCCCGCGCGGCTGCTGCTTCCAAAGACAG 180
DB 121 AGTGGCGCGGCGCGGAGCGCGCCCGCGCGGCTGCTGCTTCCAAAGACAG 180
QY 181 CCATAAGCAGAACCAAGATCTGACGAGATCTGACGAATATTGTCAGCCCGCGCTCC 240
DB 181 CCATAAGCAGAACCAAGATCTGACGAGATCTGACGAATATTGTCAGCCCGCGCTCC 240
QY 241 AATACTGAGGGCGGAGAGAGAGAGAGAGCGCTGCTCTCGCAATGCGCTTCTGAC 300
DB 241 AATACTGAGGGCGGAGAGAGAGAGAGAGCGCTGCTCTCGCAATGCGCTTCTGAC 300
QY 301 CCGCTAATACGAAAAAAGAAACGAGCAA 327
DB 301 CCGCTAATACGAAAAAAGAAACGAGCAA 327

RESULT 2
AAT91445
ID AAT91445 standard; DNA; 327 BP.
XX
XX AAT91445;
XX
XX 13-JAN-1998 (first entry)
XX
XX Mycobacterium tuberculosis antigen Tb38-1 encoding DNA.
XX
XX Antigen; immunogen; vaccine; tuberculosis; non specific adjuvant;
XX KM skin testing; M. tuberculosis; ss.
XX
XX Mycobacterium tuberculosis.
XX OS
XX Key Location/Qualifiers
XX FT CDS 12..299

FT /-tag= a
FT /product= Antigen_Tb38-1
XX
XX W09709429-A2.
XX
XX 13-MAR-1997.
XX
XX PD
XX PF 30-AUG-1996; 96MO-US14675.
XX
XX 12-JUL-1996; 96US-0680573.
XX PR 01-SEP-1995; 95US-0523435.
XX PR 22-SEP-1995; 95US-0532136.
XX PR 22-MAR-1996; 96US-0620280.
XX PR 05-JUN-1996; 96US-0658800.
XX
XX (CORI-) CORIXA CORP.
XX
XX Campos-neto A, Dillon DC, Houghton R, Reed SG, Skelky YAW;
XX PI Twardzik DR, Vedvick TH;
XX WPI: 1997-192904/17.
XX DR P-PSDB; AAM32376.
XX
XX New immunogenic polypeptide(s) from soluble M. tuberculosis antigens
XX PT - useful for diagnosis of M. tuberculosis infection
XX
XX Claim 4; Page 88; 190pp; English.
XX
XX A new immunogenic polypeptide has been developed comprising an
XX CC immunogenic part of a soluble Mycobacterium tuberculosis antigen (or
XX CC its variant differing only in conservative substitutions and/or
XX CC modifications). The present sequence encodes a specifically claimed
XX CC M. tuberculosis antigen, Tb38-1. The immunogenic polypeptide can be
XX CC used to diagnose M. tuberculosis infection by forming complexes with
XX CC specific antibodies in the sample. Fragments of DNA encoding the
XX CC immunogenic polypeptide can be used as diagnostic primers or probes
XX CC and agents that bind to the antigen, especially monoclonal antibodies
XX CC or equivalent polyclonal antibodies, are also used for diagnosis.
XX
SQ Sequence 327 BP; 79 A; 95 C; 111 G; 42 T; 0 other;

Query Match 100.0%; Score 327; DB 18; Length 327;
Best Local Similarity 100.0%; Pred. No. 6.6e-72;
Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGACGAGAGACCGATGCGCTACCTCGCGGAGAGGAGGATATTGAGGGATCT 60
DB 1 CGGACGAGAGACCGATGCGCTACCTCGCGGAGAGGAGGATATTGAGGGATCT 60
QY 61 CCGGCGACTGTAACCAAGATGAGAGGATGAGCGGAGGATGCTTGGAGGGCC 120
DB 61 CCGGCGACTGTAACCAAGATGAGAGGATGAGCGGAGGATGCTTGGAGGGCC 120
QY 121 AGTGGCGCGGCGCGGAGCGCGCCCGCGCGGCTGCTGCTTCCAAAGACAG 180
DB 121 AGTGGCGCGGCGCGGAGCGCGCCCGCGCGGCTGCTGCTTCCAAAGACAG 180
QY 181 CCATAAGCAGAACCAAGATCTGACGAGATCTGACGAATATTGTCAGCCCGCGCTCC 240
DB 181 CCATAAGCAGAACCAAGATCTGACGAGATCTGACGAATATTGTCAGCCCGCGCTCC 240
QY 241 AATACTGAGGGCGGAGAGAGAGAGAGAGCGCTGCTCTCGCAATGCGCTTCTGAC 300
DB 241 AATACTGAGGGCGGAGAGAGAGAGAGAGCGCTGCTCTCGCAATGCGCTTCTGAC 300
QY 301 CCGCTAATACGAAAAAAGAAACGAGCAA 327
DB 301 CCGCTAATACGAAAAAAGAAACGAGCAA 327

RESULT 3
AAV64492
ID AAV64492 standard; DNA; 327 BP.

XX	AAV644492;
AC	
XX	27-JAN-1999 (first entry)
DT	
XX	M. tuberculosis immunogenic polypeptide Tb38-1 DNA.
DE	
XX	Tuberculosis; immunogenic; soluble; antigen; protective immunity; TB;
KW	vaccine; pharmaceutical; infection; diagnosis; ss.
XX	
OS	Mycobacterium tuberculosis.
XX	
PN	MO9816646-A2.
XX	
PD	23-APR-1998.
XX	
PF	07-OCT-1997; 97WO-US18293.
XX	
PR	13-MAR-1997; 97US-0818112.
RR	11-OCT-1996; 96US-0730510.
XX	
PA	(CORI-) CORIXA CORP.
XX	
PI	Campes-Neto A, Dillon DC, Houghton R, Lodes MJ;
PL	Reed SG, Skeiky YAM, Twardzik DR, Vedrick TS;
XX	
DR	WPJ, 1998-261042/23.
XX	P-PDSDB; AAW81747.
PT	Immunogenic Mycobacterium tuberculosis polypeptide(s) and DNA - used
PT	to develop products for the detection of M. tuberculosis infection
PT	and for diagnosis, treatment and prevention of tuberculosis
XX	
PS	Claim 4; Page 88; 230pp; English.
XX	
CC	This sequence encodes an immunogenic portion of a soluble Mycobacterium
CC	tuberculosis (MT) antigen which can be used in a method for inducing
CC	protective immunity against tuberculosis (TB). This sequence can be
CC	formulated into vaccines and/or pharmaceutical compositions for
CC	immunising against M. tuberculosis infection or may be used for the
CC	diagnosis of tuberculosis.
XX	
SQ	Sequence 327 BP; 79 A; 95 C; 111 G; 42 T; 0 other;
	Query Match 100.0%; Score 327; DB 19; Length 327;
	Best Local Similarity 100.0%; Pred. No. 6,6e-72;
	Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	1 CGGCAGCAGAGACCGATGCGCTACTTCGCCGACAGAGCGAGTAAATTTCAGCCGATCT 60
Db	1 CGGCAGCAGAGACCGATGCGCTACTTCGCCGACAGAGCGAGTAAATTTCAGCCGATCT 60
OY	61 CCGGGACTTGAAAACCCAGATGCACAGGTGAATTCACCGSCAGTTGCTTGCAAGGCC 120
Db	61 CCGGGACTTGAAAACCCAGATGCACAGGTGAATTCACCGSCAGTTGCTTGCAAGGCC 120
OY	121 AGTGGCGCGGCCGCGCGGGGAGACGGCCGCCCGCGGTGTGGCTTCCAAGAAGAG 180
Db	121 AGTGGCGCGGCCGCGCGGGGAGACGGCCGCCCGGTGTGGCTTCCAAGAAGAG 180
OY	181 CCMAATAAGCAGAGCAGAACTCGACGAGATTCGACGAATATTTGTCAGGCCGCTCC 240
Db	181 CCMAATAAGCAGAGCAGAACTCGACGAGATTCGACGAATATTTGTCAGGCCGCTCC 240
OY	241 AATATCTCGAGGGCCGACGAGAGCAGCAGAGCGCTGTCTTCGAATATGGCTTCTAC 300
Db	241 AATATCTCGAGGGCCGACGAGAGCAGCAGAGCGCTGTCTTCGAATATGGCTTCTAC 300
OY	301 CCGTAATATCAAAAAAGAAACGAGCAA 327
Db	301 CCGTAATATCAAAAAAGAAACGAGCAA 327

ID	AAV44384	standard; DNA; 327 BP.
XX	AAV44384	
AC	AAV44384;	
XX		
DT	09-NOV-1998	(first entry)
XX		
DE	Mycobacterium tuberculosis antigen Tb38-1 DNA.	
XX		
KW	Tuberculosis; infection; diagnosis; antigen; Tb38-1; ss.	
XX		
OS	Mycobacterium tuberculosis strain H37Rv.	
XX		
FN	W09816645-A2.	
XX		
PD	23-APR-1998.	
XX		
PE	07-OCT-1997; 97WO-US18214.	
XX		
FR	13-MAR-1997; 97US-0818111.	
PR	11-OCT-1996; 96US-0729622.	
XX		
PA	(CORI-) CORIXA CORP.	
XX		
PI	Campes-Neto A, Dillon DC, Houghton R, Lodes MJ;	
P1	Reed SG, Skeiky YAW, Twardzik DR, Vedvick TS;	
XX		
DR	WPI; 1998-251292/22.	
XX	P-PsDB; AA64321.	
PT	New isolated Mycobacterium tuberculosis polypeptides and DNA - used	
PT	to develop products for the detection of M. tuberculosis infection	
PS	and diagnosis of tuberculosis	
PS	Claim 4; Page 90; 250pp; English.	
XX		
CC	This DNA sequence codes for an antigenic portion of Mycobacterium	
CC	tuberculosis antigen Tb38-1 (see AA64321). It was isolated from a	
CC	M. tuberculosis strain H37Rv expression library using sera from	
CC	patients having pulmonary or pleural tuberculosis. The invention	
CC	relates to compositions and methods for diagnosing tuberculosis.	
CC	It provides polypeptides (see AA64291-W64379) comprising an	
CC	antigenic portion of a soluble M. tuberculosis antigen, or an	
CC	immunogenic portion of an M. tuberculosis antigen, as well as DNA	
CC	sequences encoding such polypeptides, recombinant expression	
CC	vectors and transformed or transfected host cells. Also claimed	
CC	are methods and diagnostic kits for detecting M. tuberculosis	
CC	infection in a patient using these polypeptides, antibodies or	
CC	oligonucleotide probes and primers, for the diagnosis of	
CC	tuberculosis.	
SQ	Sequence 327 BP; 79 A; 95 C; 111 G; 42 T; 0 other:	
Query Match	100.0%; Score 327; DB 19; Length 327;	
Best Local Similarity	100.0%; Pred. No. 6.ee-72;	
Matches 327; Conservative	0; Mismatches 0; Indels 0; Gaps 0;	
DG	1 CGGCACGAGAACCGATGCCGTACCCTCCGGCAGAGAAGCATTAATTTCAGCGGACT	60
DB	1 CGGCACGAGAACCGATGCCGTACCCTCCGGCAGAGAAGCATTAATTTCAGCGGACT	60
DG	61 CCGCGACCTTAAAAACCCAGATCGACCAAGTGAGATCGACGCGCATTCGTTGACGGCC	120
DB	61 CCGCGACCTTAAAAACCCAGATCGACCAAGTGAGATCGACGCGCATTCGTTGACGGCC	120
DG	121 AGTGGCCGCGCGCGCGCGGGAACCGCGCCGCGCGCGCGCGCGCGCGCGCGCGCGCG	180
DB	121 AGTGGCCGCGCGCGCGCGGGAACCGCGCCGCGCGCGCGCGCGCGCGCGCGCGCGCG	180
DG	181 CCATTAAAGCAGAAAGCAGGAACTTCGACGAGATCTCGACGAATATTCGTACGCGCGCTC	240
DB	181 CCATTAAAGCAGAAAGCAGGAACTTCGACGAGATCTTCGACGAATATTCGTACGCGCGCTC	240

Db 61 CCGGCGACCTGAAAAACCCAGATCGACGAGTGTGACGCGAGGTTCTGTGACGGGCC 120
 Qy 121 AGTGGCGGCGCGCGCGGAGCGCGCCGACGCGCGCGTGTGTGCTTCCAGAGAGAG 180
 Db 121 AGTGGCGGCGCGCGCGGAGCGCGCCGACGCGCGCGTGTGTGCTTCCAGAGAGAG 180
 Qy 181 CCAATTAAGCAGAGACGAGAACTCGACGAGATCTCGACGAAATATTGTCAGGCGCGCTCC 240
 Db 181 CCAATTAAGCAGAGACGAGAACTCGACGAGATCTCGACGAAATATTGTCAGGCGCGCTCC 240
 Qy 241 AATATCTGAGAGCGCGAG 300
 Db 241 AATATCTGAGAGCGCGAG 300
 Qy 301 CCGCTAATACGAAAAAGAAACGAGAGCAA 327
 Db 301 CCGCTAATACGAAAAAGAAACGAGAGCAA 327

RESULT 7
 AAD47094
 ID AAD47094 standard; DNA; 327 BP.
 AC AAD47094;
 DT 27-JAN-2003 (first entry)
 DE Mycobacterium tuberculosis Tb38-1 antigen encoding DNA.
 XX
 KM Vaccine; immunity; diagnostic agent; gene therapy; Tb38-1 antigen;
 KN MTB11; gene; ds.
 XX
 OS Mycobacterium tuberculosis.
 FT
 FT Key Location/Qualifiers
 CDS 12..299
 /tag= a
 /product= "Tb38-1 antigenic protein"
 /note= "CDS does not include start codon"
 /partial

MO200272792-A2.
 19-SEP-2002.
 13-MAR-2002; 2002WO-US08223.
 PR 13-MAR-2001; 2001US-275837P.
 PA (CORI-) CORIXA CORP.
 PI Skeiky Y, Brannon M, Guderian J;
 XX WPI; 2002-759844/82.
 DR P-PSDB; AAE29717.
 XX
 PT New recombinant nucleic acid molecule comprising a Leishmania TSA,
 PT leIF, M15 or 6H polynucleotide, useful as vaccine to elicit protective
 PT immunity against pathogenic microorganisms e.g. Leishmania and
 PT Mycobacterium tuberculosis
 XX
 PS Disclosure; Page 106-107; 155pp; English.
 XX
 CC The invention relates to a recombinant nucleic acid molecule encoding a
 CC fusion polypeptide. The recombinant nucleic acid comprises a heterologous
 CC polynucleotide sequence encoding an antigen or an antigenic fragment from
 CC Mycobacterium sp. and a Leishmania polynucleotide sequence encoding a
 CC polypeptide or its fragment. The Leishmania polynucleotide is selected
 CC from TSA, leIF, M15, and 6H polynucleotides. Sequences of the invention
 CC are used in methods for eliciting immune response in mammals. They are
 CC useful as vaccines to elicit protective immunity against pathogenic
 CC microorganisms such as Leishmania and Mycobacterium tuberculosis. Fusion
 CC polypeptides are used for enhancing the expression of polynucleotides,

CC as in vivo diagnostic agents and for raising antibodies in a non-human
 CC animal. The invention is used in gene therapy. The present sequence is
 CC M. tuberculosis Tb38-1 antigen encoding DNA. Tb38-1 is also referred to
 CC as MTB11 or 38-1.
 XX
 SQ Sequence 327 BP; 79 A; 95 C; 111 G; 42 T; 0 other;
 Query Match 100.0%; Score 327; DB 24; Length 327;
 Best Local Similarity 100.0%; Pred. No. 6,6e-72;
 Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGCAGCAGAGACCGGATCCGCTACCTCGCGCAGAGAGAGAGAGAGAGAGAGAGAGAG 60
 Db 1 CCGCAGCAGAGACCGGATCCGCTACCTCGCGCAGAGAGAGAGAGAGAGAGAGAGAGAG 60
 Qy 61 CCGGCGACCTGAAAAACCCAGATCGACGAGTGTGACGCGAGGTTCTGTGACGGGCC 120
 Db 61 CCGGCGACCTGAAAAACCCAGATCGACGAGTGTGACGCGAGGTTCTGTGACGGGCC 120
 Qy 121 AGTGGCGGCGCGCGGAG 180
 Db 121 AGTGGCGGCGCGCGGAG 180
 Qy 181 CCAATTAAGCAGAGACGAGAACTCGACGAGATCTCGACGAAATATTGTCAGGCGCGCTCC 240
 Db 181 CCAATTAAGCAGAGACGAGAACTCGACGAGATCTCGACGAAATATTGTCAGGCGCGCTCC 240
 Qy 241 AATATCTGAGAGCGCGAG 300
 Db 241 AATATCTGAGAGCGCGAG 300
 Qy 301 CCGCTAATACGAAAAAGAAACGAGAGCAA 327
 Db 301 CCGCTAATACGAAAAAGAAACGAGAGCAA 327

RESULT 8
 AAD28352
 ID AAD28352 standard; DNA; 327 BP.
 AC AAD28352;
 DT 22-APR-2002 (first entry)
 DE Mycobacterium species Tb38-1 (Mtb11; 38-1) DNA.
 XX
 KM Fusion protein; antigen; serological sensitivity; immune response;
 KN tuberculosis; infection; vaccine; Tb38-1; Mtb11; 38-1; ds.
 XX
 OS Mycobacterium sp.
 FT
 FT Key Location/Qualifiers
 CDS 12..299
 /tag= a
 /product= "Tb38-1 protein"
 /note= "CDS does not include start codon"
 /partial

MO200198460-A2.
 27-DEC-2001.
 20-JUN-2001; 2001WO-US19959.
 PR 20-JUN-2000; 2000US-0597796.
 PR 01-FEB-2001; 2001US-265737P.
 PA (CORI-) CORIXA CORP.
 PI Skeiky Y, Reed S, Alderson M;
 XX WPI; 2002-147798/19.
 DR P-PSDB; AAE17581.

XX Composition comprising MTB39 antigen and MTB32A antigen from
PT Mycobacterium species, useful for eliciting immune response in a
PT subject -

XX Disclosure: Page 123, 136pp; English.

XX The present invention relates to fusion proteins containing at least
XX two Mycobacterium species antigens, nucleotides encoding them and
XX compositions comprising such fusion proteins. The present invention
XX particularly relates to nucleic acids encoding fusion proteins that
XX include two or more individual M. tuberculosis antigens which increase
XX the serological sensitivity of sera from individuals infected with
XX tuberculosis and methods for their use in diagnosis, prevention and
XX treatment of tuberculosis infection. Sequences of the invention are
XX useful for eliciting an immune response in a mammal, e.g., human,
XX immunised with BCG. They are useful in the diagnosis, treatment and
XX prevention of Mycobacterium infection. The fusion proteins and the
XX polynucleotides are useful as diagnostic tools in patients infected
XX with Mycobacterium, in vitro and in vivo assays for detecting humoral
XX antibodies or cell-mediated immunity against M. tuberculosis, for the
XX diagnosis of an infection or monitoring of disease progression, as
XX immunogens to generate or elicit a protective immune response in a
XX patient and for raising anti-M. tuberculosis antibodies in a non-human
XX animal. Sequences of the invention are also used as vaccines. MTB32A
XX fusion proteins of the invention are useful as in vivo diagnostic agents
XX for intradermal skin test. The present sequence is a DNA encoding
XX Mycobacterium species Tb38-1 (Mtbt1, 38-1) protein.

XX Sequence 327 BP, 79 A, 95 C, 111 G, 42 T, 0 other;

XX Query Match 100.0%; Score 327; DB 24; Length 327;

XX Best Local Similarity 100.0%; Pred. No. 6.6e-72;

XX Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGCGAGAGAGCCGATGCGCTTACCTGCGCAGAGGCGAGCTAATTCAGCGGATCT 60
DB 1 CGGCGAGAGAGCCGATGCGCTTACCTGCGCAGAGGCGAGCTAATTCAGCGGATCT 60
QY 61 CGGCGAGCTGAAACCCGATGCGCAGAGGCGAGCTGCGCAGAGGCGAGCTGCGCAGG 120
DB 61 CGGCGAGCTGAAACCCGATGCGCAGAGGCGAGCTGCGCAGAGGCGAGCTGCGCAGG 120
QY 61 CGGCGAGCTGAAACCCGATGCGCAGAGGCGAGCTGCGCAGAGGCGAGCTGCGCAGG 120
DB 61 CGGCGAGCTGAAACCCGATGCGCAGAGGCGAGCTGCGCAGAGGCGAGCTGCGCAGG 120
QY 121 AGTGGCGGCG 180
DB 121 AGTGGCGGCG 180
QY 121 AGTGGCGGCG 180
DB 121 AGTGGCGGCG 180
QY 181 CCAATTAAGCAGAGGAGGAACTCGACGAGATCTCGACGAAATTTGTCAGGCGCGCTCC 240
DB 181 CCAATTAAGCAGAGGAGGAACTCGACGAGATCTCGACGAAATTTGTCAGGCGCGCTCC 240
QY 241 AATATCTGAGGCG 300
DB 241 AATATCTGAGGCG 300
QY 241 AATATCTGAGGCG 300
DB 241 AATATCTGAGGCG 300
QY 301 CCGCTAATACGAAAGAAAGAGAGCA 327
DB 301 CCGCTAATACGAAAGAAAGAGAGCA 327

XX RESULT 9

XX AAH75863

XX ID AAH75863 standard; DNA; 641 BP.

XX AAH75863;

XX 26-OCT-2001 (first entry)

XX Mycobacterium tuberculosis gene fragment #4.

XX Mycobacterium tuberculosis detection; ds.

XX Mycobacterium tuberculosis.

XX OS

XX

XX

XX RU2163638-C1.

XX 27-FEB-2001.

XX 06-DEC-1999; 99RU-0125164.

XX 06-DEC-1999; 99RU-0125164.

XX (ASIB=) AS SIBE BIOCHEM RES INST.

XX Beklemishev AB, Khorocheva EM, Nomokonova Yu N;

XX WPI, 2001-280317/29.

XX Detection of DNA from tuberculosis mycobacterium complex comprising a
XX polymerase chain reaction method -

XX Disclosure: Columns 19-22, 13pp; Russian.

XX The present invention relates to a PCR-based method for the detection of
XX Mycobacterium tuberculosis. The present sequence was used to illustrate
XX the method of the present invention.

XX Sequence 641 BP, 163 A, 178 C, 209 G, 91 T, 0 other;

XX Query Match 97.2%; Score 318; DB 22; Length 641;

XX Best Local Similarity 100.0%; Pred. No. 1.2e-69;

XX Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCGATGCCGCTACCTGCGCGCAGAGGCGAGCTAATTTGAGCGGATCTCCGCGCAGC 69
DB 109 AGACCGATGCCGCTACCTGCGCGCAGAGGCGAGCTAATTTGAGCGGATCTCCGCGCAGC 168
QY 70 TGAAGACCCAGATGACGAGGAGTGAGTGCAGGAGGTTGTTGACGCGCGCGAGTGGCGG 129
DB 169 TGAAGACCCAGATGACGAGGAGTGAGTGCAGGAGGTTGTTGACGCGCGCGAGTGGCGG 228
QY 130 GCGCGCGCGGAGCG 189
DB 229 GCGCGCGCGGAGCG 288
QY 190 AGAAGCAGAACTGACGAGATCTGACGAAATTTGTCAGGCGCGCGCTCCAAATATCTGA 249
DB 289 AGAAGCAGAACTGACGAGATCTGACGAAATTTGTCAGGCGCGCGCTCCAAATATCTGA 348
QY 250 GCGCGCGAGAGCAGAGGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 309
DB 349 GCGCGCGAGAGGAGGAGGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 408
QY 310 CGAAGAGAAACGAGCA 327
DB 409 CGAAGAGAAACGAGCA 426

XX RESULT 10

XX AAV64507

XX ID AAV64507 standard; DNA; 1616 BP.

XX AAV64507;

XX 27-JAN-1999 (first entry)

XX M. tuberculosis immunogenic polypeptide Tb38-1P2 IN DNA.

XX Tuberculosis; immunogenic; soluble; antigen; protective immunity; TB;

XX vaccine; pharmaceutical; infection; diagnosis; ss.

XX Mycobacterium tuberculosis.

XX OS

XX W09816646-A2.

XX PN

XX 23-APR-1998.

XX

XX 07-OCT-1997; 97WO-US18293.
 PF 13-MAR-1997; 97US-0818112.
 PR 11-OCT-1996; 96US-0730510.
 XX (CORI-) CORIXA CORP.
 XX Campos-Neto A, Dillon DC, Houghton R, Lodes MJ;
 PI Reed SG, Skeiky YAM, Twardzik DR, Vedvick TS;
 XX WPI; 1998-261042/23.
 DR
 XX Immunogenic Mycobacterium tuberculosis polypeptide(s) and DNA - used
 PT to develop products for the detection of M. tuberculosis infection
 PT and for diagnosis, treatment and prevention of tuberculosis
 XX
 PS Example 3b, Page 136; 230pp; English.
 XX
 CC This sequence encodes an immunogenic portion of a soluble Mycobacterium
 CC tuberculosis (MT) antigen which can be used in a method for inducing
 CC protective immunity against tuberculosis (TB). This sequence can be
 CC formulated into vaccines and/or pharmaceutical compositions for
 CC immunising against M. tuberculosis infection or may be used for the
 CC diagnosis of tuberculosis.
 XX
 SX Sequence 1616 BP; 331 A; 501 C; 550 G; 234 T; 0 other;
 Query Match 97.2%; Score 318; DB 19; Length 1616;
 Best Local Similarity 100.0%; Pred. No. 1.4e-69;
 Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 10 AGACCGATGCGGCTACCTCGCGAGAGGAGGAGGATTTGAGCGATCTCCGCGAC 69
 Db 1232 AGACCGATGCGGCTACCTCGCGAGAGGAGGAGGATTTGAGCGATCTCCGCGAC 1231
 QY 70 TGAATACCCAGATCGACAGGTGAGTGCAGCGAGGTTCTTCAGAGGCCAGTGGCGG 129
 Db 1292 TGAATACCCAGATCGACAGGTGAGTGCAGCGAGGTTCTTCAGAGGCCAGTGGCGG 1351
 QY 130 GCGCGGGGGAGCGCGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 189
 Db 1352 GCGCGGGGGAGCGCGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1411
 QY 190 AGAAGCAGAACTCGACGAGATCTCGAAGATATTCTCGAAGCGCGGCGGCGGCGGCGG 249
 Db 1412 AGAAGCAGAACTCGACGAGATCTCGAAGATATTCTCGAAGCGCGGCGGCGGCGGCGG 1471
 QY 250 GGGCGGAGAGAGCAGAGCAGCGCTGCTCTCGCAATGGGCTTCTGACCCGCTAATA 309
 Db 1472 GGGCGGAGAGAGCAGAGCAGCGCTGCTCTCGCAATGGGCTTCTGACCCGCTAATA 1531
 QY 310 CGAAAGAAACGAGCAA 327
 Db 1532 CGAAAGAAACGAGCAA 1549
 RESULT 11
 AAV44398 standard; DNA; 1616 BP.
 ID AAV44398;
 XX AAV44398;
 AC
 XX 09-NOV-1998 (first entry)
 XX
 DE Mycobacterium tuberculosis antigen Tb38-1F2 IN DNA.
 XX
 KM Tuberculosis; infection; diagnosis; antigen; Tb38-1F2 IN; ss.
 XX
 OS Mycobacterium tuberculosis strain H37Rv.
 XX
 PN WO9816645-A2.
 XX

PD 23-APR-1998.
 XX
 PF 07-OCT-1997; 97WO-US18214.
 XX
 PR 13-MAR-1997; 97US-0818111.
 PR 11-OCT-1996; 96US-0729622.
 XX (CORI-) CORIXA CORP.
 XX Campos-Neto A, Dillon DC, Houghton R, Lodes MJ;
 PI Reed SG, Skeiky YAM, Twardzik DR, Vedvick TS;
 XX WPI; 1998-251292/22.
 DR
 XX New isolated Mycobacterium tuberculosis polypeptides and DNA - used
 PT to develop products for the detection of M. tuberculosis infection
 PT and diagnosis of tuberculosis
 XX
 PS Example 3; Page 141-142; 250pp; English.
 XX
 CC This DNA sequence codes for an antigenic portion of Mycobacterium
 CC tuberculosis antigen Tb38-1F2 IN. It was isolated from a M.
 CC tuberculosis strain H37Rv genomic library using a probe derived
 CC from clone Tb38-1 (see AAV44384). Tb38-1F2 IN and Tb38-1F2 RP (see
 CC AAV44399) are non-contiguous sequences from clone Tb38-1F2. The
 CC invention relates to compositions and methods for diagnosing
 CC tuberculosis. It provides polypeptides (see AAW64291-W64379)
 CC comprising an antigenic portion of a soluble M. tuberculosis
 CC antigen, or an immunogenic portion of an M. tuberculosis antigen,
 CC as well as DNA sequences encoding such polypeptides, recombinant
 CC expression vectors and transformed or transfected host cells. Also
 CC claimed are methods and diagnostic kits for detecting M.
 CC tuberculosis infection in a patient using these polypeptides,
 CC antibodies or oligonucleotide probes and primers, for the diagnosis
 CC of tuberculosis.
 XX
 SX Sequence 1616 BP; 331 A; 501 C; 550 G; 234 T; 0 other;
 Query Match 97.2%; Score 318; DB 19; Length 1616;
 Best Local Similarity 100.0%; Pred. No. 1.4e-69;
 Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 10 AGACCGATGCGGCTACCTCGCGAGAGGAGGAGGATTTGAGCGATCTCCGCGAC 69
 Db 1232 AGACCGATGCGGCTACCTCGCGAGAGGAGGAGGATTTGAGCGATCTCCGCGAC 1231
 QY 70 TGAATACCCAGATCGACAGGTGAGTGCAGCGAGGTTCTTCAGAGGCCAGTGGCGG 129
 Db 1292 TGAATACCCAGATCGACAGGTGAGTGCAGCGAGGTTCTTCAGAGGCCAGTGGCGG 1351
 QY 130 GCGCGGGGGAGCGCGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 189
 Db 1352 GCGCGGGGGAGCGCGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1411
 QY 190 AGAAGCAGAACTCGACGAGATCTCGAAGATATTCTCGAAGCGCGGCGGCGGCGGCGG 249
 Db 1412 AGAAGCAGAACTCGACGAGATCTCGAAGATATTCTCGAAGCGCGGCGGCGGCGGCGG 1471
 QY 250 GGGCGGAGAGAGCAGAGCAGCGCTGCTCTCGCAATGGGCTTCTGACCCGCTAATA 309
 Db 1472 GGGCGGAGAGAGCAGAGCAGCGCTGCTCTCGCAATGGGCTTCTGACCCGCTAATA 1531
 QY 310 CGAAAGAAACGAGCAA 327
 Db 1532 CGAAAGAAACGAGCAA 1549
 RESULT 12
 AA219308 standard; DNA; 1616 BP.
 ID AA219308;
 XX AA219308;
 AC
 XX
 AC
 XX

RESULT 14
 ABS63323
 ID ABS63323 standard; DNA; 1617 BP.
 XX
 AC ABS63323;
 DT 15-NOV-2002 (first entry)
 XX
 DE M. tuberculosis CD4+ antigen Tb38-1 DNA.
 KW db; gene; antigen; CD4+; infectious disease; tumour; tuberculosis;
 KM autoimmune disease; Leishmaniasis; dendritic cell; T cell.
 XX
 OS Mycobacterium tuberculosis.
 XX
 PN US2002081579-A1.
 PD 27-JUN-2002.
 PF 13-FEB-1998; 98US-0023586.
 XX
 PR 13-FEB-1998; 98US-0023586.
 XX
 PA (POTR/) POTTER J E R.
 XX
 PI Skeiky YAM, Dillon DC, Alderson MR;
 XX
 DR WPI; 2002-617730/66.
 XX
 PT Identifying DNAs encoding CD4+ T cell stimulating antigens, for
 PT isolating new CD4+ T cell-stimulating antigens associated with e.g.
 PT infections, comprises measuring the levels of interferon-gamma
 PT production or cell proliferation -
 XX
 PS Example 1; Page 38; 46pp; English.
 XX
 CC The invention relates to identifying DNA sequences that encode CD4+ T
 CC cell stimulating antigens or antigens containing antibody epitopes
 CC comprising determining the level of CD4+ T cell stimulation when incubated
 CC with dendritic cells that have been exposed with a host cell transformed
 CC with a plasmid suspected of containing a DNA sequence that encodes a CD4+
 CC T cell stimulating antigen. Also included are (1) an isolated DNA
 CC sequence consisting of DNA sequences isolated using the new method, their
 CC complement or DNA sequences that hybridise to them; (2) an expression
 CC vector comprising (1); (3) a host cell transformed with the expression
 CC vector of (2); and (4) a polypeptide comprising an immunogenic portion of
 CC antigen, or a variant of the antigen that differs only in conservative
 CC substitutions and/or modifications, where the antigen comprises an amino
 CC acid sequence encoded by (1). The method is useful for identifying and
 CC isolating new antigens that stimulate CD4+ T cells. In particular, the
 CC method is useful for isolating antigens associated with any disorder in
 CC which the stimulation of CD4+ T cells is believed to play a role in the
 CC body's immune response, e.g. CD4+ T cell-stimulating antigens associated
 CC with infectious disease agents such as Mycobacterium tuberculosis or
 CC Leishmaniasis, tumour tissue, or autoimmune disorders. The present method
 CC is less technically difficult and less time-consuming than prior methods.
 CC The present method is also more suitable for high-throughput use.
 CC M. tuberculosis, Tb38-1.
 CC
 CC Sequence 1617 BP; 331 A; 501 C; 550 G; 234 T; 1 other;
 SQ
 Query Match 97.2%; Score 318; DB 24; Length 1617;
 Best Local Similarity 100.0%; Pred. No. 1.4e-69;
 Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 10 AGACCGATGCGGCAACCTGCGGAGGAGGAGGTAATTTGAGCGGATCTCGGCGACG 69
 DB 1233 AGACCGATGCGGCAACCTGCGGAGGAGGAGGTAATTTGAGCGGATCTCGGCGACG 1292
 QY 70 TGAAGCCAGATGACACGAGGTGAGTGCACGCGAGGTTCTTCAG33CCAGTGGCGG 129

DB 1293 TGAAGCCAGATGACCAAGATGAGTGCACGCGAGGTTCTTCGAGGCGCACTGGCGG 1352
 QY 130 GCGGAGCGGAGAGCGCCGCCAGGCGCGGTGGGCTTCGAAGAAGACCAATAGC 189
 DB 1353 GCGGAGCGGAGAGCGCCGCCAGGCGCGGTGGGCTTCGAAGAAGACCAATAGC 1412
 QY 190 AGAAGCAGAACTGACGAGATCTCGACGAATATTCGTCAAGGCGGCTCAATCTCGA 249
 DB 1413 AGAAGCAGAACTGACGAGATCTCGACGAATATTCGTCAAGGCGGCTCAATCTCGA 1472
 QY 250 GGGCCGACGAGAGCAGCAGCAGCGCGGTCTCTCGCAATGGCTTTGACCCGCTATA 309
 DB 1473 GGGCCGACGAGAGCAGCAGCAGCGCGGTCTCTCGCAATGGCTTTGACCCGCTATA 1532
 QY 310 CGAAGAGAAACGGAGCA 327
 DB 1533 CGAAGAGAAACGGAGCA 1550
 RESULT 15
 AAT33535
 ID AAT33535 standard; DNA; 16885 BP.
 XX
 AC AAT33535;
 DT 15-FEB-1998 (first entry)
 XX
 DE BCG deletion region 1 and flanking sequences.
 XX
 KW BCG delta 1; virulence; avirulence; attenuation; gene deletion;
 KM mycobacteria; vaccine; infection; marker; ss.
 XX
 OS Mycobacterium bovis strain BCG.
 XX
 XX Key Location/Qualifiers
 FH misc_feature 2327..11126
 FT /*tag= a
 PT /*note= "BCG delta 1 deletion region"
 XX
 PN W09625519-A1.
 XX
 PD 22-AUG-1996.
 XX
 PF 15-FEB-1996; 96MO-US01938.
 PR 17-FEB-1995; 95US-0390878.
 XX
 PA (PATH-) PATHOGENESIS CORP.
 XX
 PI Mahatras CG, Stover CK;
 XX
 DR WPI; 1996-393419/39.
 XX
 PT Detecting markers for avirulence in Mycobacterium - used in
 PT production of vaccines against bacterial infection, and to detect
 PT bacterial infection
 XX
 PS Example 1; Fig 1; 66pp; English.
 XX
 CC This DNA sequence comprises Mycobacterium bovis BCG deletion
 CC sequence BCGdelta1. A specific genetic deletion of this region
 CC results in an avirulence phenotype of the mycobacterium. 2 other
 CC deletion regions (see AAT33535 and AAT33537) have also been detected.
 CC Identification involved screening a BCG cosmid library with a
 CC radiolabeled probe obtained following DNA subtraction between
 CC virulent Mycobacterium tuberculosis H37Rv and avirulent BCG.
 CC The deletions provide useful markers for the identification of an
 CC avirulent, or a virulent, mycobacterial phenotype. Determination
 CC of avirulence requires the detection of the presence or absence of
 CC the deletion; the deletions are detected either by detecting the
 CC presence or absence of deletion junctions (see AAT33538-46), or by
 CC detecting the presence or absence of the sequences contained within

CC the deletion. Deletion polypeptides are used as components of
CC immunological assays and in vaccines.

XX
SQ Sequence 16885 BP; 3050 A; 5603 C; 5307 G; 2915 T; 10 other;

Query Match 97.2%; Score 318; DB 17; Length 16885;

Best Local Similarity 100.0%; Pred. No. 2e-69;

Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 10 AGACGATGCGCTACCTCCGCGAGGAGGAGGATTTGAGCGGATCTCCGCGACC 69
   |||
Db 4352 AGACCGATGCGCTACCTCCGCGAGGAGGAGGATTTGAGCGGATCTCCGCGACC 4411
   |||

QY 70 TGAATCCAGATGACCCAGGTGAGTGCAGCGCAGTTGTTGCAAGGCGCAGTGGCGG 129
   |||
Db 4412 TGAATCCAGATGACCCAGGTGAGTGCAGCGCAGTTGTTGCAAGGCGCAGTGGCGG 4471
   |||

QY 130 GCGCGCGCGGAGCGGCGCGCCAGGCGCGTGTGCGCTTCCAGAGAGCAATTAAGC 189
   |||
Db 4472 GCGCGCGCGGAGCGGCGCGCCAGGCGCGTGTGCGCTTCCAGAGAGCAATTAAGC 4531
   |||

QY 190 AGAAGCAGGAATCTGACGAGATCTGAGAAATATTCGTCAGGCGCGCTCCAAATCTGA 249
   |||
Db 4532 AGAAGCAGGAATCTGACGAGATCTGAGAAATATTCGTCAGGCGCGCTCCAAATCTGA 4591
   |||

QY 250 GGGCGGAGGAGGAGGAGGAGGCGCTGTCTCGCAATGGGCTTTGACCGGCTAATA 309
   |||
Db 4592 GGGCGGAGGAGGAGGAGGAGGCGCTGTCTCGCAATGGGCTTTGACCGGCTAATA 4651
   |||

QY 310 CGAAAAAGAACGGAGCAA 327
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Db 4652 CGAAAAAGAACGGAGCAA 4669
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Search completed: January 15, 2004, 06:46:58
Job time : 264 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 15, 2004, 06:42:30 ; Search time 29'9 Seconds
(without alignments)
388.211 Million cell updates/sec

Title: US-10-084-843-46
Perfect score: 327
Sequence: 1 CGCACGAGAGACCGATGCC.....TACGAAAGAGACGAGCAA 327

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapept 1.0

Searched: 2324096 seqs, 1762381658 residues

Total number of hits satisfying chosen parameters: 4648192

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database: Published Applications NA:*

1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCR_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
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17: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	327	100.0	US-10-084-843-46	Sequence 46, Appl
2	327	100.0	US-10-193-002-46	Sequence 46, Appl
3	327	100.0	US-10-098-732A-34	Sequence 14, Appl
4	318	97.2	US-10-084-843-112	Sequence 112, App
5	318	97.2	US-10-193-002-107	Sequence 107, App
6	318	97.2	US-09-023-588-67	Sequence 67, Appl
7	318	97.2	US-10-351-452-1	Sequence 1, Appl
8	316.4	96.8	US-10-140-045-37	Sequence 37, Appl
9	316.4	96.8	US-10-140-045-38	Sequence 38, Appl
10	287.4	87.9	US-10-140-045-4	Sequence 4, Appl
11	287.4	87.9	US-10-084-843-350	Sequence 350, App
12	287.4	87.9	US-10-193-002-345	Sequence 345, App
13	287.4	87.9	US-09-287-849-9	Sequence 9, Appl
14	287.4	87.9	US-10-084-843-213	Sequence 213, App

16	287.4	87.9	7676	13	US-10-193-002-208	Sequence 208, App
17	287.4	87.9	7676	13	US-10-359-460-9	Sequence 9, Appl
18	287	87.8	300	10	US-09-894-844-4	Sequence 4, Appl
19	286.8	87.7	3572	13	US-10-084-843-342	Sequence 342, App
20	286.8	87.7	3572	13	US-10-193-002-337	Sequence 337, App
21	285.4	87.3	855	15	US-10-140-045-36	Sequence 36, Appl
22	272	83.2	396	13	US-10-084-843-116	Sequence 116, App
23	272	83.2	396	13	US-10-193-002-111	Sequence 111, App
24	46	14.1	387	13	US-10-084-843-118	Sequence 118, App
25	46	14.1	387	13	US-10-193-002-113	Sequence 113, App
26	44.2	13.5	3471	15	US-10-156-761-2726	Sequence 2726, App
27	44.2	13.5	9025608	15	US-10-156-761-1	Sequence 1, Appl
28	42.6	13.0	3897	15	US-10-156-761-4899	Sequence 4899, Appl
29	42.4	13.0	603	13	US-10-029-386-20492	Sequence 20492, A
30	42.4	13.0	4139	12	US-10-439-388-24	Sequence 24, Appl
31	40.2	12.3	6442	10	US-09-950-335A-11	Sequence 11, Appl
32	39.8	12.2	1128	15	US-10-156-761-2339	Sequence 2339, App
33	39.8	12.2	3882	12	US-10-084-846A-49	Sequence 49, Appl
34	39.8	12.2	59816	12	US-10-084-846A-1	Sequence 1, Appl
35	39.8	12.2	59816	12	US-10-084-846A-2	Sequence 2, Appl
36	39.6	12.2	9025608	15	US-10-156-761-1	Sequence 1, Appl
37	39.6	12.1	75216	16	US-10-080-170-646	Sequence 646, App
38	39.6	12.1	154746	13	US-09-827-688-8	Sequence 8, Appl
39	39.4	12.0	2076	12	US-10-369-493-44211	Sequence 44211, A
40	38.4	11.7	2529	15	US-10-156-761-6449	Sequence 6449, App
41	38	11.6	849	15	US-10-156-761-1518	Sequence 1518, App
42	38	11.6	921	15	US-10-156-761-1518	Sequence 1518, App
43	37.8	11.6	1170	12	US-10-369-493-44371	Sequence 44371, A
44	37.8	11.6	1191	12	US-10-156-761-7336	Sequence 7336, App
45	37.8	11.6	2040	12	US-10-369-493-41606	Sequence 41606, A

ALIGNMENTS

RESULT 1
US-10-084-843-46
Sequence 46, Application US/10084843
Publication No. US20030143243A1

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonio
Houghton, Raymond
Vedrick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.

ADDRESSSEE: SEED and BERRY LUT
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

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? Sequence 34, Application 05/10/98,
? Publication No. US20030175294A1
?
? GENERAL INFORMATION:
? APPLICANT: Skeiky, Yasir
? APPLICANT: Brannon, Mark
? APPLICANT: Guderman, Jeffrey
? APPLICANT: Corixa Corporation
? TITLE OF INVENTION: Heterologous Fusion Protein Constructs Comprising a
? TITLE OF INVENTION: Leishmania Antigen
? FILE REFERENCE: 014058-012010US
? CURRENT APPLICATION NUMBER: US/10/098, 732A
? CURRENT FILING DATE: 2003-04-29
? PRIOR APPLICATION NUMBER: US 60/275, 837
? PRIOR FILING DATE: 2001-03-13
? NUMBER OF SEQ ID NOS: 80
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 34
? LENGTH: 327
? TYPE: DNA
? ORGANISM: Mycobacterium tuberculosis

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FEATURE:
OTHER INFORMATION: TB38-1 or 38-1 (MTB11)
US-10-098-732A-34

Query Match 100.0%; Score 327; DB 13; Length 327;
Best Local Similarity 100.0%; Pred. No. 2.5e-88;
Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGACGAGAGACCGATGCGCTACCTCGCGGAGAGAGAGATTAATTCGAGCGGATCT 60
DB 1 CGGACGAGAGACCGATGCGCTACCTCGCGGAGAGAGAGATTAATTCGAGCGGATCT 60
QY 61 CGGCGGACCTGAAAAACCGATGACCGAGGTGAGTGCAGCGGAGGTTCGTTGAGGCGCC 120
DB 61 CGGCGGACCTGAAAAACCGATGACCGAGGTGAGTGCAGCGGAGGTTCGTTGAGGCGCC 120
QY 121 AGTGGCG 180
DB 121 AGTGGCG 180
QY 181 CCAATAAGCAGAGACGAGAACTCGACGAGATCTGACGAAATATTCGTCAGGCGCGCGTCC 240
DB 181 CCAATAAGCAGAGACGAGAACTCGACGAGATCTGACGAAATATTCGTCAGGCGCGCGTCC 240
QY 241 AATACTGAGGCGCGAGCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
DB 241 AATACTGAGGCGCGAGCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
QY 301 CCGCTAATACGAAAAAGAAACGAGCAA 327
DB 301 CCGCTAATACGAAAAAGAAACGAGCAA 327

RESULT 4
US-10-084-843-112
Sequence 112, Application US/10084843
Publication No. US20030143243A1

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 355

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/084,843

FILING DATE: 25-Feb-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072,967

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.411C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 112:

SEQUENCE CHARACTERISTICS:

LENGTH: 1616 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 112:

US-10-084-843-112

Query Match 97.2%; Score 318; DB 13; Length 1616;
Best Local Similarity 100.0%; Pred. No. 1.5e-85;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCAATGCCGCTACCTCGCGGAGAGAGAGAGATTAATTCGAGCGGATTCGCGGAGCC 69
DB 1232 AGACCAATGCCGCTACCTCGCGGAGAGAGAGAGATTAATTCGAGCGGATTCGCGGAGCC 1291
QY 70 TGAATAACCGATGACGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 129
DB 1292 TGAATAACCGATGACGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1351
QY 130 GCGCGGCGGAG 189
DB 1352 GCGCGGCGGAG 1411
QY 190 AGAAGCAGAGAACTCGACGAGATCTCGACGAAATATTCGTCAGGCGCGCGTCTCAATAC 249
DB 1412 AGAAGCAGAGAACTCGACGAGATCTCGACGAAATATTCGTCAGGCGCGCGTCTCAATAC 1471
QY 250 GGGCGGAG 309
DB 1472 GGGCGGAG 1531
QY 310 CGAAAGAAACGAGAGCAA 327
DB 1532 CGAAAGAAACGAGAGCAA 1549

RESULT 5
US-10-193-002-107
Sequence 107, Application US/10193002
Publication No. US2003015026A1

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/193,002

FILING DATE: 10-Jul-2002

CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 107:
SEQUENCE CHARACTERISTICS:
LENGTH: 1616 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 107:
US-10-193-002-107

Query Match 97.2%; Score 318; DB 13; Length 1616;
Best Local Similarity 100.0%; Pred. No. 1.5e-85;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCGATGCCGCTACCTCCGCGAGGAGGAGGTAATTTGAGCGGATCTCCGCGAGCC 69
DB 1232 AGACCGATGCCGCTACCTCCGCGAGGAGGAGGTAATTTGAGCGGATCTCCGCGAGCC 1291
QY 70 TGAAGCCAGATCGACGAGGTGAGTGCAGCGGAGTTCTTGCAAGGCGCAATGGCGCG 129
DB 1292 TGAAGCCAGATCGACGAGGTGAGTGCAGCGGAGTTCTTGCAAGGCGCAATGGCGCG 1351
QY 130 GCGGCGGCGGAGGAGCG 189
DB 1352 GCGGCGGCGGAGGAGCG 1411
QY 190 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCGTCAGCGCGCGCGCGCGCGCG 249
DB 1412 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCGTCAGCGCGCGCGCGCGCGCG 1471
QY 250 GGGCGCGAGAGAGCAGAGCAGCGCGCTGTCTCGCAATGGGCTTTCGACCGCGCTAATA 309
DB 1472 GGGCGCGAGAGAGCAGAGCAGCGCGCTGTCTCGCAATGGGCTTTCGACCGCGCTAATA 1531
QY 310 CGAAGAGAAACGAGCA 327
DB 1532 CGAAGAGAAACGAGCA 1549

RESULT 6

US-09-023-588-67
Sequence 67, Application US/09023588
Patent No. US20020081579A1
GENERAL INFORMATION:
APPLICANT: Skelky, Yasir A.W.
APPLICANT: Dillon, David C.
APPLICANT: Alderson, Mark R.
TITLE OF INVENTION: METHOD FOR THE ISOLATION OF NOVEL ANTIGENS
NUMBER OF SEQUENCES: 69
CORRESPONDENCE ADDRESS:
ADDRESS: SEED AND BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,588

FILING DATE: 14-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.445
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 67:
SEQUENCE CHARACTERISTICS:
LENGTH: 1617 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE: Mycobacterium tuberculosis
US-09-023-588-67

Query Match 97.2%; Score 318; DB 9; Length 1617;
Best Local Similarity 100.0%; Pred. No. 1.5e-85;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCGATGCCGCTACCTCCGCGAGGAGGAGGTAATTTGAGCGGATCTCCGCGAGCC 69
DB 1232 AGACCGATGCCGCTACCTCCGCGAGGAGGAGGTAATTTGAGCGGATCTCCGCGAGCC 1292
QY 70 TGAAGCCAGATCGACGAGGTGAGTGCAGCGGAGTTCTTGCAAGGCGCAATGGCGCG 129
DB 1292 TGAAGCCAGATCGACGAGGTGAGTGCAGCGGAGTTCTTGCAAGGCGCAATGGCGCG 1352
QY 130 GCGGCGGCGGAGGAGCG 189
DB 1352 GCGGCGGCGGAGGAGCG 1412
QY 190 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCGTCAGCGCGCGCGCGCGCGCG 249
DB 1412 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCGTCAGCGCGCGCGCGCGCGCG 1472
QY 250 GGGCGCGAGAGAGCAGAGCAGCGCGCTGTCTCGCAATGGGCTTTCGACCGCGCTAATA 309
DB 1472 GGGCGCGAGAGAGCAGAGCAGCGCGCTGTCTCGCAATGGGCTTTCGACCGCGCTAATA 1532
QY 310 CGAAGAGAAACGAGCA 327
DB 1532 CGAAGAGAAACGAGCA 1550

RESULT 7

US-10-351-452-1
Sequence 1, Application US/10351452
Publication No. US20040001866A1
GENERAL INFORMATION:
APPLICANT: Albert Einstein College of Medicine of Yeshiva University
APPLICANT: Jacobs, Jr., William R.
APPLICANT: Heu, Tsungda
APPLICANT: Bardarov, Steyan
APPLICANT: Sambandamurthy, Vasan
TITLE OF INVENTION: ATTENUATED MYCOBACTERIUM TUBERCULOSIS VACCINES
FILE REFERENCE: 96700/794
CURRENT APPLICATION NUMBER: US/10/351,452
CURRENT FILING DATE: 2003-01-24
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1
LENGTH: 9454
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
US-10-351-452-1

Query Match 97.2%; Score 318; DB 12; Length 9454;
Best Local Similarity 100.0%; Pred. No. 1.8e-85;

	Matches	318:	Conservative	0:	Mismatches	0:	Indels	0:	Gaps	0:
Qy	10	AGACCGATGCCCGCTACTCCTCGCGCAGAGAGGCGAGTAATTTTGAGCGAGATCTCCGGCGAC	69							
Db	2022	AGACCGAATGCCGCTACTCCTCGCGCAGAGAGGCGAGTAATTTTGAGCGAGATCTCCGGCGAC	2081							
Qy	70	TGAAATCCAGATCGACCGAGGTGAGTGAACGGCGAGTTGCTGCGAGGAGCCAGTGGCGAG	129							
Db	2082	TGAAATCCAGATCGACCGAGGTGAGTGAACGGCGAGTTGCTGCGAGGAGCCAGTGGCGAG	2141							
Qy	130	GCGCGCGCGGAGACGGCCGCCAGCGCGCGGTGTCGCTTCCAAAGACAGCCATAAGC	189							
Db	2142	GCGCGCGCGGAGACGGCCGCCAGCGCGCGGTGTCGCTTCCAAAGACAGCCATAAGC	2201							
Qy	190	AGAAACGAGAACTCGACGAGATCTTCGACGAATATTGTCGAGCGCGCTCCAAATCTCGA	249							
Db	2202	AGAAACGAGAACTCGACGAGATCTTCGACGAATATTGTCGAGCGCGCTCCAAATCTCGA	2261							
Qy	250	GGGCGCGAGAGAGAGAGAGAGCGCTGTCTCTCGCAATAGGGCTTCGACCCGCTAATA	309							
Db	2262	GGGCGCGAGAGAGAGAGAGAGCGCGCTGTCTCTCGCAATAGGGCTTCGACCCGCTAATA	2321							
Qy	310	CGAAAGAGAAACGAGACAA	327							
Db	2322	CGAAAGAGAAACGAGACAA	2339							

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RESULT 8
US-10-140-045-37
; Sequence 37, Application US/10140045
; Publication No. US20030092899A1
; GENERAL INFORMATION:
; APPLICANT: GICQUEL, BRIGITTE
; APPLICANT: BERTHER, FRANCOIS-XAVIER
; APPLICANT: ANDERSEN, PETER
; APPLICANT: RASMUSSEN, PETER B
; TITLE OF INVENTION: POLYNUCLEOTIDE FUNCTIONALLY CODING FOR THE LRP PROTEIN FROM MYCOBACTERIUM TUBERCULOSIS, ITS BIOLOGICALLY ACTIVE DERIVATIVE FRAGMENTS, AS WELL AS THE USE THEREOF
; TITLE OR INVENTION: USING THE SAME
; FILE REFERENCE: 0660-0137-27X
; CURRENT APPLICATION NUMBER: US/10/140,045
; CURRENT FILING DATE: 2002-05-08
; PRIOR APPLICATION NUMBER: US/09/116,492A
; PRIOR FILING DATE: 1998-07-16
; PRIOR APPLICATION NUMBER: 60/252,631
; PRIOR FILING DATE: 1997-07-16
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 37
; LENGTH: 1069
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
US-10-140-045-37

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	Query Match	Similarity	96.8%	Score	3.16.4	DB	15	Length	1069	
	Best Local	Similarity	99.7%	Pred.	No.	4.3e-85				
	Matches	317	Conservative	0	Mismatches	1	Indels	0	Gaps	0
QY	10	AGACCGATGCGCGCTACCTTCGCGCGAGGCGAGTAATTTTCGAGCGATCTTCGCGGACCC	69							
DB	538	AGACCGAATGCGCGCTACCTTCGCGCGAGGCGAGTAATTTTCGAGCGATCTTCGCGGACCC	597							
QY	70	TGAAATCCCAANTGACACGAGGTGAGTGAACGCGGAGTTTCGTGTGACAGGGCCAGATGGCCGCG	129							
DB	598	TGAAATCCCAANTGACACGAGGTGAGTGAACGCGGAGTTTCGTGTGACAGGGCCAGATGGCCGCG	657							
QY	130	GCGCGCGCGGAGACGCGCGCCACGCGCGCGGTGTGCGCTTCCAGAMGACGCAATAAGC	189							
DB	658	GCGCGCGCGGAGACGCGCGCCACGCGCGCGGTGTGCGCTTCCAGAMGACGCAATAAGC	717							
QY	190	AGAAAGCAGGAATCTGACAGAGATCTTCGAGGAATATTCGTGCAGGCGCGCTCCAAATCTGGA	249							
DB	718	AGAAAGCAGGAATCTGACAGAGATCTTCGAGGAATATTCGTGCAGGCGCGCTCCAAATCTGGA	777							

QY	250	GGGCGCAGCGAGGACAGAGGCGTCTCTCGCAATGGGCTTGTGACCCGCTATA	307
Db	778	GGGCGCAGCGAGGACAGAGGCGTCTCTCGCAATGGGCTTGTGACCCGCTATA	837
QY	310	CGAAAGAAACGGAGCA	327
Db	838	CGAAAGAAACGGAGCA	855

RESULT 9
 US-10-140-045-1
 ; Sequence 1, Application US//10140045
 ; Publication No. US20030092899A1
 ; GENERAL INFORMATION:
 ; APPLICANT: GICQUEL, BRIGITTE
 ; APPLICANT: BERTHET, FRANCOIS-XAVIER
 ; APPLICANT: ANDERSEN, PETER
 ; APPLICANT: RASUSSEN, PETER B
 ; TITLE OF INVENTION: POLYNUCLEOTIDE FUNCTIONALLY CODING FOR THE LHP PROTEIN F
 ; TITLE OF INVENTION: TUBERCULOSIS, ITS BIOLOGICALLY ACTIVE DERIVATIVE FRAGMENT, AS WE
 ; TITLE OF INVENTION: USING THE SAME
 ; FILE REFERENCE: 0660-0137-27X
 ; CURRENT APPLICATION NUMBER: US/10/140,045
 ; CURRENT FILING DATE: 2002-05-08
 ; PRIOR APPLICATION NUMBER: US/09/116,492A
 ; PRIOR FILING DATE: 1998-07-16
 ; PRIOR APPLICATION NUMBER: 60/252,631
 ; PRIOR FILING DATE: 1997-07-16
 ; NUMBER OF SEQ ID NOS: 39
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 1
 ; LENGTH: 1277
 ; TYPE: DNA
 ; ORGANISM: Mycobacterium tuberculosis
 US-10-140-045-1

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Query Match Similarity 96.8%; Score 316.4; DB 15; Length 1277;
Best Local Similarity 99.7%; Pred. No. 4.4e-85;
Matches 317; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 10 AGACCGATGCGCGTACCTCTGCGCAGAGGACAGTAATTTGAGCGGATCTCCGCGACC 69
    |||||
Db 538 AGACCGATGCGCGTACCTCTGCGGACGAGGACAGTAAATTTGACGGATCTCCGCGACC 597
    |||||
OY 70 TGAATACCCAGATTCGACAGGTGAGTTCGACGGCAGTTCTGTCGAGGGCCATGCGCG 129
    |||||
Db 598 TGAATACCCAGATTCGACAGGTGAGTTCGACGGCAGTTCTGTCGAGGGCCATGCGCG 657
    |||||
OY 130 GCGCGGCGGGACGCGCGCGCCGAGCGCGGTGTGGCTTCAGAAAGACGCAATAGC 189
    |||||
Db 658 GCGCGGCGGGACGCGCGCGCCGAGCGCGGTGTGGCTTCAGAAAGACGCAATAGC 717
    |||||
OY 190 AGAAGCAGAACTCGACGAGATCTCGACGATATTTGTCAGGCGCGCTCAATACTCGA 249
    |||||
Db 718 AGAAGCAGAACTCGACGAGATCTCGACGATATTTGTCAGGCGCGCTCAATACTCGA 777
    |||||
OY 250 GGGCCGAGAGAGAGACGACGAGCGGTCTCTCGCAATGGGCTTCGACCGCGTATA 309
    |||||
Db 778 GGGCCGAGAGAGACGACGAGCGGTCTCTCGCAATGGGCTTCGACCGCGTATA 837
    |||||
OY 310 CGAAAGAGAGCGAGCAA 327
    |||||
Db 838 CGAAAGAGAGCGAGCAA 855
    |||||

RESULT 10
US-10-140-045-38
; Sequence 38, Application US/10140045
; Publication No. US20030092899A1
; GENERAL INFORMATION:
; APPLICANT: GICQUEL, BRIGITTE
; APPLICANT: BERTHET, FRANCOIS-XAVIER

```

Query Match	96.8%	Score 316.4	DB 15	Length 1282
Best Local Similarity	99.7%	Pred. No. 4.4e-85		
Matches 317; Conservative	0	Mismatches 1	Indels 0	Gaps 0

RESULT 11

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US-10-140-045-4
ORGANISM: Mycobacterium tuberculosis
Query Match      87.9%; Score 287.4; DB 15; Length 302;
Beet Local Similarity 99.7%; Pred. No. 1.8e-76;
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0

OY 10 AGACCGATGTCGGCTTACCCCTGCAGCAGGAGGAGGAGGTAAATTTCAGACGGATCTCCGGCGACC 69
DB 14 AGACCGATGTCGGCTTACCCCTGCAGCAGGAGGAGGAGGTAAATTTCAGACGGATCTCCGGCGACC 73
OY 70 TGAATAACCAAGATGACCAAGTGAGTGCAGCGGAGTTCTGTCAGGCGCAGTGGCGCG 129
DB 74 TGAATAACCAAGATGACCAAGTGAGTGCAGCGGAGTTCTGTCAGGCGCAGTGGCGCG 133
OY 130 GCGCGGGGGGAGCGGCCCGCCCTTAGCCCGCGGTGTGTGCGCTTCCAGAAGCACCATTAAGC 189
DB 134 GCGCGGGGGGAGCGGCCCGCCCGCGGTGTGTGCGCTTCCAGAAGCACCATTAAGC 193
OY 190 AGAAGCAAGAACTGCAGCAGATCTCGAAGAAATTTGTCAGGCGCGGCTCCAATACTCGA 249
DB 194 AGAAGCAAGAACTGCAGCAGATCTCGAAGAAATTTGTCAGGCGCGGCTCCAATACTCGA 253
OY 250 GGCGCGAGCAGAGCAGCAGCGCGCTGTCTTCGCAATGGGCTTCTG 298
DB 254 GGCGCGAGCAGAGCAGCAGCGCGCTGTCTTCGCAATGGGCTTCTG 302

RESULT 12
US-10-084-843-350
Sequence 350, Application US/10084843
Publication No. US20030143243A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Lwardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 350:
SEQUENCE CHARACTERISTICS:

```

LENGTH: 2412 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 350:
US-10-084-843-350

Query Match 87.9%; Score 287.4; DB 13; Length 2412;
Best Local Similarity 98.0%; Pred. No. 2.3e-76;
Matches 291; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 10 AGACCGATGCCGCTACCTCTCGCGAGAGGACAGTAATTTGACCGCATCTCCGGCGACC 69
DB 1286 AGACCGATGCCGCTACCTCTCGCGAGAGGACAGTAATTTGACCGCATCTCCGGCGACC 1345
QY 70 TGAATCCGATGACGAGTGTGACGCGAGGTTGTTGACAGGCGCATGCGCGC 129
DB 1346 TGAATCCGATGACGAGTGTGACGCGAGGTTGTTGACAGGCGCATGCGCGC 1405
QY 130 GCGCGGCGGAGAGCGCGCCAGGCGGCGGCTTCCAAAGAGCCCAATAAGC 189
DB 1406 GCGCGGCGGAGAGCGCGCCAGGCGGCGGCTTCCAAAGAGCCCAATAAGC 1465
QY 190 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCGTCAAGCGCGCTCAATACTCGA 249
DB 1466 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCGTCAAGCGCGCTCAATACTCGA 1525
QY 250 GGGCCGACGAGAGCAGCAGCGCGCTGTCTTCGCAATGGGCTTTGACCGCGTA 306
DB 1526 GGGCCGACGAGAGCAGCAGCGCGCTGTCTTCGCAATGGGCTTTGACCGCGCA 1582

RESULT 13

US-10-193-002-345
Sequence 345, Application US/10193002
Publication No. US20030135026A1
GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yaelir A.W.

Dillon, David C.

Campos-Neto, Antonio

Houghton, Raymond

Vedvick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TUBERCULOSIS

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

TUBERCULOSIS

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

Zip: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/193.002

FILING DATE: 10-Jul-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072.596

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.417C9

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 345:
SEQUENCE CHARACTERISTICS:
LENGTH: 2412 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 345:
US-10-193-002-345

Query Match 87.9%; Score 287.4; DB 13; Length 2412;
Best Local Similarity 98.0%; Pred. No. 2.3e-76;
Matches 291; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 10 AGACCGATGCCGCTACCTCTCGCGAGAGGACAGTAATTTGACCGCATCTCCGGCGACC 69
DB 1286 AGACCGATGCCGCTACCTCTCGCGAGAGGACAGTAATTTGACCGCATCTCCGGCGACC 1345
QY 70 TGAATCCGATGACGAGTGTGACGCGAGGTTGTTGACAGGCGCATGCGCGC 129
DB 1346 TGAATCCGATGACGAGTGTGACGCGAGGTTGTTGACAGGCGCATGCGCGC 1405
QY 130 GCGCGGCGGAGAGCGCGCCAGGCGGCGGCTTCCAAAGAGCCCAATAAGC 189
DB 1406 GCGCGGCGGAGAGCGCGCCAGGCGGCGGCTTCCAAAGAGCCCAATAAGC 1465
QY 190 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCGTCAAGCGCGCTCAATACTCGA 249
DB 1466 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCGTCAAGCGCGCTCAATACTCGA 1525
QY 250 GGGCCGACGAGAGCAGCAGCGCGCTGTCTTCGCAATGGGCTTTGACCGCGTA 306
DB 1526 GGGCCGACGAGAGCAGCAGCGCGCTGTCTTCGCAATGGGCTTTGACCGCGCA 1582

RESULT 14

US-09-287-849-9
Sequence 9, Application US/09287849
Patent No. US2002009459A1
GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yaelir A.W.

Dillon, David C.

Campos-Neto, Antonio

Houghton, Raymond

Vedvick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TUBERCULOSIS

TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens

FILE REFERENCE: 014058-009020US

CURRENT APPLICATION NUMBER: US/09/287.849

PRIOR FILING DATE: 1999-04-07

PRIOR APPLICATION NUMBER: US 08/818.112

PRIOR FILING DATE: 1997-03-13

PRIOR APPLICATION NUMBER: US 08/942.578

PRIOR FILING DATE: 1997-10-01

PRIOR APPLICATION NUMBER: US 09/025.197

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 09/056.556

PRIOR FILING DATE: 1998-04-07

PRIOR APPLICATION NUMBER: US 09/223.040

PRIOR FILING DATE: 1998-12-30

NUMBER OF SEQ ID NOS: 46

SOFTWARE: Patent Ver. 2.1

SEQ ID NO 9

LENGTH: 7676

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence:tetra-fusion

OTHER INFORMATION: protein Tbra3-38KD-Tb38-1-DPEP (designated TbF-2)

NAME/KEY: CDS
LOCATION: (5072) .. (7480)
US-09-287-849-9

Query Match 87.9%; Score 287.4; DB 9; Length 7676;
Best Local Similarity 98.0%; Pred. No. 2.7e-76;
Matches 291; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

10 AGACCGATGCGCTACCTCGCGCAGAGCAGGTAATTTCGACGCGATCTCCGCGCACC 69
6354 AGACCGATGCGCTACCTCGCGCAGAGCAGGTAATTTCGACGCGATCTCCGCGCACC 6413
DB 70 TGAATACCCAGATGACAGGTGAGTTCGACGCGATCTTCGACGCGATCTTCGACGCG 129
6414 TGAATACCCAGATGACAGGTGAGTTCGACGCGATCTTCGACGCGATCTTCGACGCG 6473
QY 130 GCGCGCGGAGCG 189
6474 GCGCGCGGAGCG 6533
DB 190 AGAAGCAGAACTCGACGAGATCTCGACGAAATTTTCGACGCGCGCGCGCGCGCGCG 249
6534 AGAAGCAGAACTCGACGAGATCTCGACGAAATTTTCGACGCGCGCGCGCGCGCGCG 6593
QY 250 GGGCGCAGAGAGCAGCAGCAGCGCTGCTTCGCAATGCGCTTCGACCGCGCTA 306
6594 GGGCGCAGAGAGCAGCAGCAGCGCTGCTTCGCAATGCGCTTCGACCGCGCTA 6650
DB

RESULT 15

US-10-084-843-213
Sequence 213; Application US/10084843
Publication No. US20030143243A1

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 355

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.

REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 213:

SEQUENCE CHARACTERISTICS:

LENGTH: 7676 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 213:
US-10-084-843-213

Query Match 87.9%; Score 287.4; DB 13; Length 7676;
Best Local Similarity 98.0%; Pred. No. 2.7e-76;
Matches 291; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

10 AGACCGATGCGCTACCTCGCGCAGAGCAGGTAATTTCGACGCGATCTCCGCGCACC 69
6354 AGACCGATGCGCTACCTCGCGCAGAGCAGGTAATTTCGACGCGATCTCCGCGCACC 6413
DB 70 TGAATACCCAGATGACAGGTGAGTTCGACGCGATCTTCGACGCGATCTTCGACGCG 129
6414 TGAATACCCAGATGACAGGTGAGTTCGACGCGATCTTCGACGCGATCTTCGACGCG 6473
QY 130 GCGCGCGGAGCG 189
6474 GCGCGCGGAGCG 6533
DB 190 AGAAGCAGAACTCGACGAGATCTCGACGAAATTTTCGACGCGCGCGCGCGCGCGCG 249
6534 AGAAGCAGAACTCGACGAGATCTCGACGAAATTTTCGACGCGCGCGCGCGCGCGCG 6593
QY 250 GGGCGCAGAGAGCAGCAGCAGCGCTGCTTCGCAATGCGCTTCGACCGCGCTA 306
6594 GGGCGCAGAGAGCAGCAGCAGCGCTGCTTCGCAATGCGCTTCGACCGCGCTA 6650
DB

Search completed: January 15, 2004, 09:43:45
Job time : 2980 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 15, 2004, 06:13:46 ; Search time 77 Seconds
(without alignments)
1874.445 Million cell updates/sec

Title: US-10-084-843-46

Sequence: 1 CGGACGAGAGACGATGCC.....TACGAAAGAAAGGAGCAA 327

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Gapop 10.0, Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
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3: /cgn2_6/prodata/2/ina/5B COMB.seq:*
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6: /cgn2_6/prodata/2/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	327	100.0	327	US-08-818-112-46	Sequence 46, App1
2	327	100.0	327	US-08-818-111-46	Sequence 46, App1
3	327	100.0	327	US-09-056-556-46	Sequence 46, App1
4	327	100.0	327	US-09-072-596-46	Sequence 46, App1
5	318	97.2	1616	US-08-818-112-112	Sequence 112, App
6	318	97.2	1616	US-08-818-111-107	Sequence 107, App
7	318	97.2	1616	US-09-056-556-112	Sequence 112, App
8	318	97.2	1616	US-09-072-596-107	Sequence 107, App
9	318	97.2	16885	US-08-390-878-16	Sequence 16, App1
10	318	97.2	4403765	US-09-103-840A-2	Sequence 2, App1
11	318	97.2	4411529	US-09-103-840A-1	Sequence 1, App1
12	316.4	96.8	1069	US-09-116-492A-37	Sequence 37, App1
13	316.4	96.8	1277	US-09-116-492A-1	Sequence 1, App1
14	316.4	96.8	1282	US-09-116-492A-38	Sequence 38, App1
15	287.4	87.9	302	US-09-116-492A-4	Sequence 4, App1
16	287.4	87.9	2412	US-09-072-596-345	Sequence 345, App
17	287.4	87.9	7676	US-09-056-556-213	Sequence 213, App
18	287.4	87.9	7676	US-09-072-596-208	Sequence 208, App
19	286.8	87.7	3572	US-09-072-596-337	Sequence 337, App
20	285.4	87.3	855	US-09-116-492A-36	Sequence 36, App1
21	272	83.2	396	US-08-818-112-116	Sequence 116, App
22	272	83.2	396	US-08-818-111-111	Sequence 111, App
23	272	83.2	396	US-09-056-556-116	Sequence 116, App
24	272	83.2	396	US-09-072-596-111	Sequence 111, App
25	272	83.2	396	US-08-818-112-118	Sequence 118, App
26	272	83.2	396	US-08-818-111-113	Sequence 113, App
27	272	83.2	396	US-09-056-556-118	Sequence 118, App

c 28	46	14.1	387	4	US-09-072-596-113	Sequence 113, App
c 29	42.4	13.0	4403765	3	US-09-103-840A-2	Sequence 2, App1
c 30	42.4	13.0	4411529	3	US-09-103-840A-1	Sequence 1, App1
c 31	40.6	12.4	948	4	US-09-252-991A-2355	Sequence 2355, Ap
c 32	40.6	12.4	1005	4	US-09-252-991A-2195	Sequence 2195, Ap
c 33	40.2	12.3	6443	6	5183745-5	Patent No. 5183745
c 34	39.6	12.1	729	4	US-09-252-991A-5316	Sequence 5316, Ap
c 35	38.4	11.7	9960	3	US-08-822-586-46	Sequence 46, App1
c 36	38.2	11.7	609	4	US-09-252-991A-4207	Sequence 4207, Ap
c 37	38.2	11.7	1785	4	US-09-252-991A-4278	Sequence 4278, Ap
c 38	38.2	11.7	2097	4	US-09-252-991A-13635	Sequence 13635, A
c 39	38.2	11.7	2331	4	US-09-252-991A-13809	Sequence 13809, A
c 40	37.2	11.4	466	4	US-09-091-725-38	Sequence 38, App1
c 41	37	11.3	534	4	US-09-252-991A-1533	Sequence 1533, Ap
c 42	37	11.3	3843	4	US-09-252-991A-1430	Sequence 1430, Ap
c 43	37	11.3	5337	4	US-09-252-991A-1588	Sequence 1588, Ap
c 44	36.6	11.2	477	3	US-09-135-994-1	Sequence 1, App1
c 45	36.6	11.2	477	4	US-09-684-843A-1	Sequence 1, App1

ALIGNMENTS

RESULT 1
US-08-818-112-46
; Sequence 46, Application US/08818112
; Patent No. 6290969
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, David C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 153
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/818, 112
; FILING DATE: 13-MAR-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 327 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-818-112-46
; Query Match 100.0%; Score 327; DB 3; Length 327;
; Best Local Similarity 100.0%; Pred. No. 4, 6e-78;
; Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGACGAGAGACCGATGCGCTACCTCGCGGACGAGGAGGATTAATTTGAGGAGATCT 60
Db 1 CGGACGAGAGACCGATGCGCTACCTCGCGGAGGAGGATTAATTTGAGGAGATCT 60
QY 61 CGGCGACCTGAAAAACCCAGATGACCAAGGTGAGTGCAGCGGAGTTGCTTGACGAGGCC 120
Db 61 CGGCGACCTGAAAAACCCAGATGACCAAGGTGAGTGCAGCGGAGTTGCTTGACGAGGCC 120
QY 121 AGTGGCGCGGCGCGCGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
Db 121 AGTGGCGCGGCGCGCGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
QY 181 CCATTAAGCAGAAACGAGAACTCGACGAGATCTGACGAAATATTGTCAGGCGCGCGCTCC 240
Db 181 CCATTAAGCAGAAACGAGAACTCGACGAGATCTGACGAAATATTGTCAGGCGCGCGCTCC 240
QY 241 AATACTGAGGCGCGGACGAGAGGACGACGAGCGCTGTCTCTGCAAAATGCGCTTCTGAC 300
Db 241 AATACTGAGGCGCGGACGAGAGGACGACGAGCGCTGTCTCTGCAAAATGCGCTTCTGAC 300
QY 301 CCGCTAATACGAAAAAGAAACGAGCA 327
Db 301 CCGCTAATACGAAAAAGAAACGAGCA 327

RESULT 2

US-08-818-11-46
Sequence 43, Application US/08818111
Patent No. 6338852
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, David C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twartzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,111
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.41706
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-818-11-46

Query Match 100.0%; Score 327; DB 4; Length 327;
Best Local Similarity 100.0%; Pred. No. 4.6e-78;
Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGACGAGAGACCGATGCGCTACCTCGCGGACGAGGAGGATTAATTTGAGGAGATCT 60
Db 1 CGGACGAGAGACCGATGCGCTACCTCGCGGAGGAGGATTAATTTGAGGAGATCT 60
QY 61 CGGCGACCTGAAAAACCCAGATGACCAAGGTGAGTGCAGCGGAGTTGCTTGACGAGGCC 120
Db 61 CGGCGACCTGAAAAACCCAGATGACCAAGGTGAGTGCAGCGGAGTTGCTTGACGAGGCC 120
QY 121 AGTGGCGCGGCGCGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
Db 121 AGTGGCGCGGCGCGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
QY 181 CCATTAAGCAGAAACGAGAACTCGACGAGATCTGACGAAATATTGTCAGGCGCGCGCTCC 240
Db 181 CCATTAAGCAGAAACGAGAACTCGACGAGATCTGACGAAATATTGTCAGGCGCGCGCTCC 240
QY 241 AATACTGAGGCGCGGACGAGAGGACGACGAGCGCTGTCTCTGCAAAATGCGCTTCTGAC 300
Db 241 AATACTGAGGCGCGGACGAGAGGACGACGAGCGCTGTCTCTGCAAAATGCGCTTCTGAC 300
QY 301 CCGCTAATACGAAAAAGAAACGAGCA 327
Db 301 CCGCTAATACGAAAAAGAAACGAGCA 327

RESULT 3

US-09-056-556-46
Sequence 46, Application US/09056556
Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, David C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-556-46

Query Match 100.0%; Score 327; DB 4; Length 327;
Best Local Similarity 100.0%; Pred. No. 4.6e-78;
Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	10	AGACCGATGCGGCTAACCTTCGCGAGAGAGCGAGTAAATTTGAGCGGATCTCCGCGAC	69
Db	1232	AGACCGATGCGGCTAACCTTCGCGAGAGAGCGAGTAAATTTGAGCGGATCTCCGCGAC	1291
QY	70	TGAAACCAGATCGACCGAGTGTGACGCGAGGTTGCTTCAGGGCCAGTGGCGG	129
Db	1292	TGAAACCAGATCGACCGAGTGTGACGCGAGGTTGCTTCAGGGCCAGTGGCGG	1351
QY	130	GCGCGGCGGGGACCGGCGGCCAGGCGCGGTGTGCGCTTCAGAGAGACCATTAAGC	189
Db	1352	GCGCGGCGGGGACCGGCGGCCAGGCGCGGTGTGCGCTTCAGAGAGACCATTAAGC	1411
QY	190	AGAGAGCAAGAACTCGACGAGATCTTCGAGAAATTCGTCAAGCCGCTCCCAATATCTGA	249
Db	1412	AGAGAGCAAGAACTCGACGAGATCTTCGAGAAATTCGTCAAGCCGCTCCCAATATCTGA	1471
QY	250	GGGCCGACGAGAGAGCAGCAGGCGCTGTCTCTCGCAATAGGCTTCTGACCCGCTATA	309
Db	1472	GGGCCGACGAGAGAGCAGCAGGCGCTGTCTCTCGCAATAGGCTTCTGACCCGCTATA	1531
QY	310	CGAAAGAGAAACGAGCAA	327
Db	1532	CGAAAGAGAAACGAGCAA	1549

RESULT 8

Sequence 107, Application US/09072596
Patent No. 6458366
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yahir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedivick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent'n Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 107:
SEQUENCE CHARACTERISTICS:
LENGTH: 1616 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-107

Query Match	Best Local Similarity	97.2%;	Score 318;	DB 4;	Length 1616;
Matches 318;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
QY	10	AGACCGATGCGCGTACCTCGCGCAGGAGCGAGGTAAATTTGACCGGATCTCCGGCACC	69		
DB	1232	AGACCGATGCGCGTACCTCGCGCAGGAGCGAGGTAAATTTGACCGGATCTCCGGCACC	1291		
QY	70	TGAAATCCCAATGACACGGTGGATGCAACGGAGGTTGCTTCAGGGCCAGTGGCGG	129		
DB	1292	TGAAATCCCAATGACACGGTGGATGCAACGGAGGTTGCTTCAGGGCCAGTGGCGG	1351		
QY	130	GCGCGCGGGGACGCGCGCCGACGGCGGGGTGTGCTTCCAGAAAGCAGCCATAAGC	189		
DB	1352	GCGCGCGGGGACGCGCGCCGACGGCGGGGTGTGCTTCCAGAAAGCAGCCATAAGC	1411		
QY	190	AGAAAGCAAGAACTCGACGAGATCTCGACGAATATTGCTCAGGCCGCGCTCAATATCTCGA	249		
DB	1412	AGAAAGCAAGAACTCGACGAGATCTCGACGAATATTGCTCAGGCCGCGCTCAATATCTCGA	1471		
QY	250	GGGCGCGACGAGAGCAGCAGCAGCGCGCTGTCTTGGCAAAATGGGCTTTCGACCCGCTATA	309		
DB	1472	GGGCGCGACGAGAGCAGCAGCAGCGCGCTGTCTTGGCAAAATGGGCTTTCGACCCGCTATA	1531		
QY	310	CGAAAGAAACGAGCAA 327			
DB	1532	CGAAAGAAACGAGCAA 1549			

RESULT

US-08-390-878-16
Sequence 16, Application US/08390878
Patent No. 5700683
GENERAL INFORMATION:
APPLICANT: Stover, Charles K.
APPLICANT: Manaltas, Gregory G.
TITLE OF INVENTION: VIRULENCE-ATTENUATING GENETIC DELETIONS
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSES: Townsend and Townsend Kourie and Crew
Street: One Market Place, Stewart Street Tower, 70th
Street: Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/390, 878
FILING DATE: 17-FEB-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Hunter, Tom
REGISTRATION NUMBER: 38,498
REFERENCE/DOCKET NUMBER: 15371A-17
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/543/9600
TELEFAX: 415/543/5043
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 16885 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-390-878-16

Query Match 97.2%; Score 318; DB 1; Length 16885;
Best Local Similarity 100.0%; Fred. No. 2.8e-75;


```

? FILE REFERENCE: 0660-0137-27X
? CURRENT APPLICATION NUMBER: US/09/116,492A
? PRIORITY FILING DATE: 1998-07-16
? PRIOR APPLICATION NUMBER: 60/252,631
? PRIOR FILING DATE: 1997-07-16
? NUMBER OF SEQ ID NOS: 39
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 37
? LENGTH: 1069
? TYPE: DNA
? ORGANISM: Mycobacterium tuberculosis
? US-09-116-492A-37

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Query Match	96.8%	Score 316.4	DB 4	Length 1069
Best Local Similarity	99.7%	Pred. No. 3.9e-75		
Matches 317	Conservative 0	Mismatches 1	Indels 0	Gaps 0

Qy	70	TEAAAA	CCCAAGATCCAC	CCAGGTGAGATCGA	CGGCGAGGCTTC	GTCTAGGGCC	CAATGCGCGG	129
Db	598	TEAAAA	CCCAAGATCCAC	CCAGGTGAGATCGA	CGGCGAGGCTTC	GTCTAGGGCC	CAATGCGCGG	657
Qy	130	GCGCGCGCGG	GAGACGCGCGCGCC	CAAGCGCGCGGTGTCGCTT	CCAGAGAGCAGC	CAATAGC	189	
Db	658	GCGCGCGCGG	GAGACGCGCGCC	CAAGCGCGCGGTGTCGCTT	CCAGAGAGCAGC	CAATAGC	717	
Qy	190	AGAAAGCAGGA	ATCTCGACGAGATCTT	GACGAATATTCGTC	CAAGCCGCGCGCT	CCAAATCTCGA	249	
Db	718	AGAAAGCAGGA	ATCTCGACGAGATCTT	GACGAATATTCGTC	CAAGCCGCGCGCT	CCAAATCTCGA	777	
Qy	250	GGGCCGACGAG	GAGAGCAGCAGCAGCGCGCT	CTCTCGCAATGGGCTT	CTGACCCGCTATA	309		
Db	778	GGGCCGACGAG	GAGAGCAGCAGCAGCGCGCT	CTCTCGCAATGGGCTT	CTGACCCGCTATA	837		
Qy	310	CGAAAAAGAA	ACGGAGCAA	327				
Db	838	CGAAAAAGAA	ACGGAGCAA	855				

RESULT 13
US-09-116-492A-1
; Sequence 1, Application US/09116492A

? APPLICANT: GICQUEL, BRIGITTE
 ? APPLICANT: BERTHET, FRANCOIS-XAVIER
 ? APPLICANT: ANDERSEN, PETER
 ? APPLICANT: RASMUSSEN, PETER B
 ? TITLE OF INVENTION: POLYNUCLEOTIDE FUNCTIONALLY CODING FOR THE LHP PROTEIN FROM MYCOE
 ? TITLE OF INVENTION: TUBERCULOSIS, ITS BIOLOGICALLY ACTIVE DERIVATIVE FRAGMENTS, AS W
 ? TITLE OF INVENTION: USING THE SAME
 ? FILE REFERENCE: 0660-0137-27X
 ? CURRENT APPLICATION NUMBER: US/09/116,492A
 ? CURRENT FILING DATE: 1998-07-16
 ? PRIOR APPLICATION NUMBER: 60/252,631
 ? PRIOR FILING DATE: 1997-07-16
 ? NUMBER OF SEQ ID NOS: 39
 ? SOFTWARE: PatentIn version 3.1
 ? SEQ ID NO 1:
 ? LENGTH: 1277
 ? TYPE: DNA
 ? ORGANISM: Mycobacterium tuberculosis
 ? S-09-116-492A-1

Query Match	96.8%	Score 316.4	DB 4	Length 1277
Best Local Similarity	99.7%	Pred. No. 41e-75		
Matches 317	Conservative	0	Mismatches 1	Indels 0
			Gaps	0
Oy	10	AGACGAGACCGCATCCCTCGCGAGGAGGACGATATTTGAGAGCGCATCTCCGGCGACC	69	

QY	Db
538	AGACGATGCCCCCTACCTCCGGGACGAGGAGCAGGTAATTTCGAGCGGATCTCCGGGAC 597
QY	70 TGAATACCCAGATTCGACGAGGTGAGTTCGACGGAAGGTTGGTTCGAGGGCAGTGGCGCG 129
Db	598 TGAATACCCAGATTCGACGAGGTGAGTTCGACGGAAGGTTGGTTCGAGGGCAGTGGCGCG 657
QY	130 GCGCGGCGGGAGCGGCGGCCAGGCGCGGTGTGCGCTTTCGAAGAGCGCAATPAAG 189
Db	658 GCGCGGCGGGAGCGGCGGCCAGGCGCGGTGTGCGCTTTCGAAGAGCGCAATPAAG 717
QY	190 AGAAGCAGGAATTCGACGAGATCTCGAGAAATATTCGACGCGCGCGGTCCTCAATACTCGA 249
Db	718 AGAAGCAGGAATTCGACGAGATCTCGAGAAATATTCGACGCGCGCGGTCCTCAATACTCGA 777
QY	250 GGGCCGACGAGGAGCAGCAGAGCGGCTGTCTTCGCAATGGCTTTCGACCCGCTPATTA 309
Db	778 GGGCCGACGAGGAGCAGCAGAGCGGCTGTCTTCGCAATGGCTTTCGACCCGCTPATTA 837
QY	310 CGAAAGAAAGAGGACAA 327
Db	838 CGAAAGAAAGAGGACAA 855

RESULT 14
 US-09-116-492A-38
 : Sequence 38, Application US/09116492A
 Patent No. 6436409
 GENERAL INFORMATION:
 APPLICANT: GICQUEL, BRIGITTE
 APPLICANT: BERTHELET, FRANCOIS-XAVIER
 APPLICANT: ANDERSEN, PETER
 APPLICANT: RASMUSSEN, PETER B
 TITLE OF INVENTION: POLYNUCLEOTIDE FUNCTIONALLY CODING FOR THE LHP PROTEIN FROM MYCOBACTERIUM TUBERCULOSIS, ITS BIOLOGICALLY ACTIVE DERIVATIVE FRAGMENTS, AS WELL AS THE USE OF SUCH COMPOSITIONS
 TITLE OF INVENTION: USING THE SAME
 FILE REFERENCE: 0660-0137-27X
 CURRENT APPLICATION NUMBER: US/09/116,492A
 CURRENT FILING DATE: 1998-07-16
 PRIOR APPLICATION NUMBER: 60/252,631
 PRIOR FILING DATE: 1997-07-16
 NUMBER OF SEQ ID NOS: 39
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 38
 LENGTH: 1282
 TYPE: DNA
 ORGANISM: Mycobacterium tuberculosis
 US-09-116-492A-38

	Query Match	Best Local Similarity	96.8%;	Score 316.4;	DB 4;	Length 1282;				
	Matches	317;	Conservative	0;	Mismatches	1;	Indels	0;	Gaps	0;
Qy	10	AGACCGATGCGCTACCTCGCGCAGAGGCGAGGTAAATTTGAGCGGATCTCCGGCAGCC	69							
Db	537	AGACCGATGCGCTACCTCGCGCAGAGGCGAGGTAAATTTGAGCGGATCTCCGGCAGCC	596							
Qy	70	TGAAAACCCAGATGACCAAGTGGAGTGCAGCGTTCGTTGCAAGGCCAGTGGCCCG	129							
Db	597	TGAAAACCCAGATGACCAAGTGGAGTGCAGCGGAGGTTCTTTGCAAGGCCAGTGGCCCG	656							
Qy	130	GCGGCGGCGGGACGCGCGGCCGCCGCGTGGCGCTTCCAAAGACAGCAATATAGC	189							
Db	657	GCGGCGGCGGGACGCGCGGCCGCCGCGTGGCGCTTCCAAAGACAGCAATATAGC	716							
Qy	190	AGAAAGCAAGAACTCGACGAGATCTCGACGAATATTCGTCAGCGCCGCTCCAAATACTCGA	249							
Db	717	AGAAAGCAAGAACTCGACGAGATCTCGACGAATATTCGTCAGCGCCGCTCCAAATACTCGA	776							
Qy	250	GGGCGCAGCAGAGACAGCAGCAGCGGCTGTCTTCGCAATAGGCTTCTGACCCGCTAATA	309							
Db	777	GGGCGCAGCAGAGACAGCAGCAGCGGCTGTCTTCGCAATAGGCTTCTGACCCGCTAATA	836							
Qy	310	CGAAAGAAACGAGCAA	327							

Thu Jan 15 09:52:36 2004

us-10-084-843-46.rni

Page 8

Db 837 CGAAAGAACGAGCAA 854

RESULT 15
 US-09-116-492A-4
 : Sequence 4, Application US/09116492A
 : Patent No. 6436409
 : GENERAL INFORMATION:
 : APPLICANT: GICQUEL, BRIGITTE
 : APPLICANT: BERTHER, FRANCOIS-XAVIER
 : APPLICANT: ANDERSEN, PETER
 : APPLICANT: RASMUSEN, PETER B
 : TITLE OF INVENTION: POLYNUCLEOTIDE FUNCTIONALLY CODING FOR THE LHP PROTEIN FROM MYCOE
 : TITLE OF INVENTION: TUBERCULOSIS, ITS BIOLOGICALLY ACTIVE DERIVATIVE FRAGMENTS, AS W
 : FILE OR INVENTION: USING THE SAME
 : FILE REFERENCE: 0660-0137-27X
 : CURRENT APPLICATION NUMBER: US/09/116.492A
 : CURRENT FILING DATE: 1998-07-16
 : PRIOR APPLICATION NUMBER: 60/252, 631
 : PRIOR FILING DATE: 1997-07-16
 : NUMBER OF SEQ ID NOS: 39
 : SOFTWARE: PatentIn version 3.1
 : SEQ ID NO. 1
 : LENGTH: 102
 : TYPE: DNA
 : ORGANISM: Mycobacterium tuberculosis
 : US-09-116-492A-4

	Query Macc1	Similarity	89.7%	Score 287.4	DB 4	Length 302
	Best Local	Similarity	97.7%	Pred. No. 1.4e-67		
	Matches	238	Conservative	0	Mismatches	1
					Indels	0
					Gaps	0
Oy	1) AGACCGATGCGCGCTACCCCTCGCGCAGAGGCGAGTAAATTTGACGGAGATCTCCGCGACC	69				
Db	1) AGACCGATGCGCGCTACCCCTCGCGCAGAGGCGAGTAAATTTGACGGAGATCTCCGCGACC	73				
Oy	7) TGAAGAACCCATATGACGACGATGATGATGACGCGCGAGTTGCTGTGACGAGGCGCAGTGGCGCG	129				
Db	74 TGAAGAACCCATATGACGACGATGATGATGACGCGCGAGTTGCTGTGACGAGGCGCAGTGGCGCG	133				
Oy	130 GCGCGCGCGGGGACCGCGCGCCGACGCGCGCGGTGCTGCGCTTCGACAAACACGCAATTAGC	189				
Db	134 GCGCGCGCGGGACCGCGCGCCGACGCGCGGTGCTGCGCTTCGACAAACACGCAATTAGC	193				
Oy	150 AGAAGCAGAACTGACAGATCTTGCAGAAATTTGTCGACGCGCGCTCCAAATCTGCA	249				
Db	154 AGAAGCAGAACTGACAGAGATCTTGCAGAAATTTGTCGACGCGCGCTCCAAATCTGCA	253				
Oy	210 GGGCGGATGAGAGACGACGACGCGCTGTCTCTCGCAATATGGGCTTCTTG	298				
Db	214 GGGCGGATGAGAGACGACGACGCGCTGTCTCTCGCAATATGGGCTTCTTG	302				

Search completed: January 15, 2004, 06:15:36
Job time : 4 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 15, 2004, 06:13:46 ; Search time 1607 Seconds
(without alignment: 8324.485 Million cell updates/sec)

Title: US-10-084-843-46

Perfect score: 327
Sequence: 1 CGGCACGAGAGACGATGCC.....TACGAAGAGAAACGAGCAA 327

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 2045481386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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- 2: gb_hcg:*
- 3: gb_in:*
- 4: gb_ov:*
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- 39: gb_ov:*
- 40: gb_ov:*
- 41: gb_ov:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	327	100.0	327	6	AR169194	AR169194 Sequence
2	327	100.0	327	6	AR182484	AR182484 Sequence
3	327	100.0	327	6	AR194867	AR194867 Sequence
4	327	100.0	327	6	AR233139	AR233139 Sequence
5	327	100.0	327	6	AR429638	AR429638 Sequence
6	327	100.0	327	6	BD006487	BD006487 Compounds
7	327	100.0	327	6	BD006487	BD006487 Compounds
8	327	100.0	327	6	BD069327	BD069327 Compounds
9	318	97.2	1069	1	AF004671	AF004671 Mycobacte
10	318	97.2	1616	6	AR169208	AR169208 Sequence
11	318	97.2	1616	6	AR182498	AR182498 Sequence
12	318	97.2	1616	6	AR194881	AR194881 Sequence
13	318	97.2	1616	6	AR233153	AR233153 Sequence
14	318	97.2	1616	6	AX429704	AX429704 Sequence
15	318	97.2	1616	6	BD006381	BD006381 Compounds
16	318	97.2	1616	6	BD006501	BD006501 Compounds
17	318	97.2	1515	6	AE007190	AE007190 Mycobacte
18	318	97.2	16885	6	186262	186262 Sequence 16
19	318	97.2	17499	1	MBU34848	U34848 Mycobacteri
20	318	97.2	19300	1	MTW027	AL022120 Mycobacte
21	318	97.2	278492	1	BX248347	BX248347 Mycobacte
22	316.4	96.8	1069	6	AR223433	AR223433 Sequence
23	316.4	96.8	1277	6	AR223409	AR223409 Sequence
24	316.4	96.8	1282	6	AR223434	AR223434 Sequence
25	292.8	89.5	330	1	AF419854	AF419854 Mycobacte
26	287.4	87.9	302	6	AR223412	AR223412 Sequence
27	287.4	87.9	2412	6	AR233302	AR233302 Sequence
28	287.4	87.9	7676	6	AR194941	AR194941 Sequence
29	287.4	87.9	7676	6	AR233213	AR233213 Sequence
30	287.4	87.9	7676	6	BD006441	BD006441 Compounds
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32	285.8	87.7	3572	6	AR233299	AR233299 Sequence
33	285.4	87.3	855	6	AR223432	AR223432 Sequence
34	272	83.2	396	6	AR169210	AR169210 Sequence
35	272	83.2	396	6	AR182500	AR182500 Sequence
36	272	83.2	396	6	AR194883	AR194883 Sequence
37	272	83.2	396	6	AR233155	AR233155 Sequence
38	272	83.2	396	6	AX429708	AX429708 Sequence
39	272	83.2	396	6	BD006383	BD006383 Compounds
40	272	83.2	396	6	BD006503	BD006503 Compounds
41	272	83.2	396	6	BD069343	BD069343 Compounds
42	85	26.0	2033	1	MLDNAL45G	X90946 M. leprae L4
43	85	26.0	40789	1	MLCB628	Y14967 Mycobacteri
44	85	26.0	344050	1	MLEPRTN1	AT583917 Mycobacte
45	50.8	15.5	708	3	MOTAPOL	M17286 M. sexta apo

ALIGNMENTS

RESULT 1	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE
1	AR169194	Sequence 46 from patent US 6290969.	AR169194	AR169194.1	GI:17906991	Unknown.	Unclassified.	1 (bases 1 to 327)	Reed, S.G., Skeiky, Y.A.W., Dillon, D.C., Campos-Neto, A., Houghton, R., Vedrick, T.S. and Iwadezik, D.R.	Compounds and methods for immunotherapy and diagnosis of tuberculosis

JOURNAL Patent: US 6290969-A 46 18-SEP-2001;
 FEATURES Location/Qualifiers
 Source 1..327 /organism="unknown"
 BASE COUNT 79 a 95 c 111 g 42 t
 ORIGIN

Query Match 100.0%; Score 327; DB 6; Length 327;
 Best Local Similarity 100.0%; Pred. No. 3.2e-55;
 Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGACGAGAGAGACCGATGCCCTACCTCGCGAGAGAGCGATATTTCGAGCGGATCT 60
 DB 1 CGGACGAGAGAGACCGATGCCCTACCTCGCGAGAGAGCGATATTTCGAGCGGATCT 60

QY 61 CCGGCGACCTGAAAACCCAGATCGACAGAGTGAAGTGAAGCGGAGGTTCTTGAGAGGCC 120
 DB 61 CCGGCGACCTGAAAACCCAGATCGACAGAGTGAAGTGAAGCGGAGGTTCTTGAGAGGCC 120

QY 121 AGTGGCGCGCGCGCGCGGAGCGCGCCGCCAGCGCGGTGTGCGCTTCCAGAGAGCAG 180
 DB 121 AGTGGCGCGCGCGCGCGGAGCGCGCCGCCAGCGCGGTGTGCGCTTCCAGAGAGCAG 180

QY 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTC 240
 DB 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTC 240

QY 241 AATCTCTGAGAGCGCGAG 300
 DB 241 AATCTCTGAGAGCGCGAG 300

QY 301 CCGCTAATACGAAAAGAAACGAGCAA 327
 DB 301 CCGCTAATACGAAAAGAAACGAGCAA 327

RESULT 2
 LOCUS AR182484 327 bp DNA linear PAT 20-APR-2002
 DEFINITION Sequence 46 from patent US 6338852.
 ACCESSION AR182484
 VERSION AR182484.1 GI:20225691
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1 (bases 1 to 327)
 AUTHORS Reed,S.G., Skeiky,Y.A.W., Dillon,D.C., Campos-Neto,A., Houghton,R.,
 /edvick,T.S. and Twardzik,D.R.
 TITLE Compounds and methods for diagnosis of tuberculosis
 JOURNAL Patent: US 6338852-A 46 15-JAN-2002;
 FEATURES Location/Qualifiers
 Source 1..327 /organism="unknown"
 BASE COUNT 79 a 95 c 111 g 42 t
 ORIGIN

Query Match 100.0%; Score 327; DB 6; Length 327;
 Best Local Similarity 100.0%; Pred. No. 3.2e-55;
 Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGACGAGAGAGACCGATGCCCTACCTCGCGAGAGAGCGATATTTCGAGCGGATCT 60
 DB 1 CGGACGAGAGAGACCGATGCCCTACCTCGCGAGAGAGCGATATTTCGAGCGGATCT 60

QY 61 CCGGCGACCTGAAAACCCAGATCGACAGAGTGAAGTGAAGCGGAGGTTCTTGAGAGGCC 120
 DB 61 CCGGCGACCTGAAAACCCAGATCGACAGAGTGAAGTGAAGCGGAGGTTCTTGAGAGGCC 120

QY 121 AGTGGCGCGCGCGCGCGGAGCGCGCCGCCAGCGCGGTGTGCGCTTCCAGAGAGCAG 180
 DB 121 AGTGGCGCGCGCGCGCGGAGCGCGCCGCCAGCGCGGTGTGCGCTTCCAGAGAGCAG 180

QY 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTC 240
 DB 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTC 240

QY 241 AATCTCTGAGAGCGCGAG 300
 DB 241 AATCTCTGAGAGCGCGAG 300

QY 301 CCGCTAATACGAAAAGAAACGAGCAA 327
 DB 301 CCGCTAATACGAAAAGAAACGAGCAA 327

QY 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTCGAC 240
 DB 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTCGAC 240

QY 241 AATCTCTGAGAGCGCGAG 300
 DB 241 AATCTCTGAGAGCGCGAG 300

QY 301 CCGCTAATACGAAAAGAAACGAGCAA 327
 DB 301 CCGCTAATACGAAAAGAAACGAGCAA 327

RESULT 3
 LOCUS AR194867 327 bp DNA linear PAT 20-APR-2002
 DEFINITION Sequence 46 from patent US 6350456.
 ACCESSION AR194867
 VERSION AR194867.1 GI:20244304
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1 (bases 1 to 327)
 AUTHORS Reed,S.G., Skeiky,Y.A.W. and Dillon,D.C.
 TITLE Compositions and methods for the prevention and treatment of M.
 tuberculosis infection
 JOURNAL Patent: US 6350456-A 46 26-FEB-2002;
 FEATURES Location/Qualifiers
 Source 1..327 /organism="unknown"
 BASE COUNT 79 a 95 c 111 g 42 t
 ORIGIN

Query Match 100.0%; Score 327; DB 6; Length 327;
 Best Local Similarity 100.0%; Pred. No. 3.2e-55;
 Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGACGAGAGAGACCGATGCCCTACCTCGCGAGAGAGCGATATTTCGAGCGGATCT 60
 DB 1 CGGACGAGAGAGACCGATGCCCTACCTCGCGAGAGAGCGATATTTCGAGCGGATCT 60

QY 61 CCGGCGACCTGAAAACCCAGATCGACAGAGTGAAGTGAAGCGGAGGTTCTTGAGAGGCC 120
 DB 61 CCGGCGACCTGAAAACCCAGATCGACAGAGTGAAGTGAAGCGGAGGTTCTTGAGAGGCC 120

QY 121 AGTGGCGCGCGCGCGCGGAGCGCGCCGCCAGCGCGGTGTGCGCTTCCAGAGAGCAG 180
 DB 121 AGTGGCGCGCGCGCGCGGAGCGCGCCGCCAGCGCGGTGTGCGCTTCCAGAGAGCAG 180

QY 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTC 240
 DB 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTC 240

QY 241 AATCTCTGAGAGCGCGAG 300
 DB 241 AATCTCTGAGAGCGCGAG 300

QY 301 CCGCTAATACGAAAAGAAACGAGCAA 327
 DB 301 CCGCTAATACGAAAAGAAACGAGCAA 327

RESULT 4
 LOCUS AR233139 327 bp DNA linear PAT 20-DEC-2002
 DEFINITION Sequence 46 from patent US 6458366.
 ACCESSION AR233139
 VERSION AR233139.1 GI:27275575
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1 (bases 1 to 327)
 AUTHORS Reed,S.G., Skeiky,Y.A.W. and Dillon,D.C.
 TITLE Compositions and methods for the prevention and treatment of M.
 tuberculosis infection
 JOURNAL Patent: US 6458366-A 46 18-DEC-2002;
 FEATURES Location/Qualifiers
 Source 1..327 /organism="unknown"
 BASE COUNT 79 a 95 c 111 g 42 t
 ORIGIN

Query Match 100.0%; Score 327; DB 6; Length 327;
 Best Local Similarity 100.0%; Pred. No. 3.2e-55;
 Matches 327; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGACGAGAGAGACCGATGCCCTACCTCGCGAGAGAGCGATATTTCGAGCGGATCT 60
 DB 1 CGGACGAGAGAGACCGATGCCCTACCTCGCGAGAGAGCGATATTTCGAGCGGATCT 60

QY 61 CCGGCGACCTGAAAACCCAGATCGACAGAGTGAAGTGAAGCGGAGGTTCTTGAGAGGCC 120
 DB 61 CCGGCGACCTGAAAACCCAGATCGACAGAGTGAAGTGAAGCGGAGGTTCTTGAGAGGCC 120

QY 121 AGTGGCGCGCGCGCGCGGAGCGCGCCGCCAGCGCGGTGTGCGCTTCCAGAGAGCAG 180
 DB 121 AGTGGCGCGCGCGCGCGGAGCGCGCCGCCAGCGCGGTGTGCGCTTCCAGAGAGCAG 180

QY 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTC 240
 DB 181 CCAATAGCAGAGACGAAACTCGACGAGATCTCGAGAAATATTCTGACGCCGCTTC 240

QY 241 AATCTCTGAGAGCGCGAG 300
 DB 241 AATCTCTGAGAGCGCGAG 300

QY 301 CCGCTAATACGAAAAGAAACGAGCAA 327
 DB 301 CCGCTAATACGAAAAGAAACGAGCAA 327

REFERENCE	1 (bases 1 to 327)
ATTHORS	Reed,S.G., Skelley,Y.A.W., Dillon,D.C., Campos-Neto,A., Houghton,R.,
TITLE	Vedvick,T.S., Twardzik,D.R., Lodes,M.J. and Hendrickson,R.C.
JOURNAL	Compounds and methods for diagnosis of tuberculosis
FEATURES	Patent: US 6458366-A 46 01-Oct-2002;
SOURCE	Location/Qualifiers
BASE COUNT	1. 327
ORIGIN	/organism="unknown"
Query Match	100.0%; Score 327; DB 6; Length 327;
Best Local Similarity	100.0%; Pred. No. 3.2e-55;
Matches 327; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
QY	1 CGGACACGAGAACCGATGCGCTACCTCTCGGCGAGAGGACAGTAATTTTCAGCGGATCT 60
DB	1 CGGACACGAGAACCGATGCGCTACCTCTCGGCGAGAGGACAGTAATTTTCAGCGGATCT 60
QY	61 CCGCGACCTGTAACCCAGATCGACAGGTGAGTGCACGGCAGGTTGTTGACGGGCC 120
DB	61 CCGCGACCTGTAACCCAGATCGACAGGTGAGTGCACGGCAGGTTGTTGACGGGCC 120
QY	121 AGTGGCGCGGCGCGGCGGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
DB	121 AGTGGCGCGGCGCGGCGGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
QY	181 CCAATTAAGCAGACGAGGAACTCGACAGAGATCTCGACGAAATATTCGTACAGCCCGCGTCC 240
DB	181 CCAATTAAGCAGACGAGGAACTCGACAGAGATCTCGACGAAATATTCGTACAGCCCGCGTCC 240
QY	241 AATACTCGAGGGCCGACGAGAGCAGACGAGCGGCTGTCTCTCCGAATATGAGCTTTTGAC 300
DB	241 AATACTCGAGGGCCGACGAGAGCAGACGAGCGGCTGTCTCTCCGAATATGAGCTTTTGAC 300
QY	301 CCGCTAATACGAAAGAAACGAGAGCA 327
DB	301 CCGCTAATACGAAAGAAACGAGAGCA 327
RESULT 5	
LOCUS	AX429638 327 bp DNA linear PAT 21-JUN-2002
DEFINITION	Sequence 46 from Patent EP1203817.
ACCESSION	AX429638
VERSION	AX429638.1 GI:21540887
KEYWORDS	
SOURCE	unidentified
ORGANISM	unidentified
REFERENCE	unclassified.
AUTHORS	1
TITLE	Reed,S.G., Skelley,Y.A., Dillon,D.C., Campos-Neto,A., Houghton,R.L.,
JOURNAL	Vedvick,T.S. and Twardzik,D.R.
FEATURES	Compounds and methods for immunotherapy and diagnosis of tuberculosis
SOURCE	Patent: EP 1203817-A 46 08-MAY-2002;
BASE COUNT	CORIXA CORPORATION (US)
ORIGIN	Location/Qualifiers
Query Match	1. 327
Best Local Similarity	/organism="unidentified"
Matches 327; Conservative	/mol type="genomic DNA"
	/db_xref="taxon:32644"
	79 a 95 c 111 g 42 t
QY	1 CGGACACGAGAACCGATGCGCTACCTCTCGGCGAGAGGACAGTAATTTTCAGCGGATCT 60
DB	1 CGGACACGAGAACCGATGCGCTACCTCTCGGCGAGAGGACAGTAATTTTCAGCGGATCT 60

[illegible]

	121	181	181	241	241	241	301	301
D _b	AGTGACGGCGCGCGCGGAGACGGCGCGCCGAGCGCGCGGTGGCTTCCAGAAAGCAG							
Q _Y	CCAAFAAGCACAACAGAGAACTCCACGAGATCTCGACGAATTTGGTAGGCGGGCGTCC							
D _b	CCAAFAAGCACAACAGAGAACTCCACGAGATCTCGACGAATTTGGTAGGCGGGCGTCC							
Q _Y	AATTCTCGAGGGCCGACGAGAGCGACGACGCGCTGTCTCGCAAAATGGCTTTCTGAC							
D _b	AATTCTCGAGGGCCGACGAGAGCGACGACGCGCTGTCTCGCAAAATGGCTTTCTGAC							
Q _Y	CCGCTAATATGAAAAAAGGAGCAA	327						
D _b	CCGCTAATATGAAAAAAGGAGCAA	327						

RESULT 7	BD006487	BD006487	327 bp	DNA	linear	PAT 31-JAN-2002
LOCUS						
DEFINITION	BDO06487 Tuberculae and methods for immunotherapy and diagnosis of					
ACCESSION	Tuberculosis.					
VERSION	BD006487					
KEYWORDS	BD006487.1	GI:18634858				
SOURCE	JP 240150183-A/46.					
ORGANISM	unidentified					
REFERENCE	unclassified					
AUTHORS	1 (cases 1 to 327)					
TITLE	Reed,S.G., Shetky,Y.A.W., Dillon,D.C., Neto,A.C., Houghton,R.,					
JOURNAL	Vedvick,T.S., Wardzik,D.R. and Lodes,M.J.					
COMMENT	Compounds and methods for immunotherapy and diagnosis of					
	Patent: JP 2001501832-A 46 13-FEB-2001;					
	CORINA CORP					
	OS Unidentified					

BASE COUNT	79 a	95 c	111 g	42 t
ORIGIN				
FEATURES				
SOURCE	location/Qualifiers 1..327 /organism="unidentified" /mol_type="genomic DNA" /db_xref="taxon:32644"			
FT	source 1..327 /organism='Unidentified'.			
PI	MICHAEL J LODES			
PC	C12N15/21, C07K14/35, A61K39/04, A61K48/00, A61K49/00, C12N15/52,			
PC	C02K19/00			
PC	G01N33/50, G01N33/60, G01N33/569, C12N1/19, C12N1/20, C12N1/21, PC			
C12N5/10//				
PC	(C12N1/21, C12R1:19)			
CC	Strandedness: Single;			
CC	Topology: Linear;			
FH	Location/Qualifiers			
FT	1..327 /organism='Unidentified'.			

	Query Match	100.0%	Score 327	DB 6	Length 327
	Best Local	Similarity 100.0%	Pred. No. 3.2e-55		
	Matches 32/7	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	1	CGGCGACGAGAACCGCATGCCCTACCTCGCGCAGAGAGCAGGTAAATTTCGAGCCGATCT			60
Db	1	CGGCGACGAGAACCGCATGCCCTACCTCGCGCAGAGAGCAGGTAAATTTCGAGCCGATCT			60
QY	61	CCGGCGACTTGA AAAACCCAGATTCGACACAGTGTGAGTTCGACGGCAGCTTCGTTGACGGGCC			120
Db	61	CCGGCGACTTGA AAAACCCAGATTCGACACAGTGTGAGTTCGACGGCAGCTTCGTTGACGGGCC			120
QY	121	AGTGGCCGCGCGCGCGCGCGGAGACGCGCCGCCACGCGCGCGGTGTGGCTTCCAGAAAGAC			180

Accession	Sequence	Position
Db	AGTGGCCGGCCGCGGCGGGGACGGCCCGACGGCCGCGGTGTGCGCTTCGCAAGAGACAG	180
Qy	CCATTAAGCAGAAAGCAGAACTGACGAGATCTCGACGAATATTCGTGACGCGCGCTCC	240
Db	CCAAATTAGCAGAAAGCAGAACTGACGAGATCTCGACGAATATTCGTGACGCGCGCTCC	240
Qy	AATATCTGAGGCGCGACGAGAGACGACGACGCGCTGTCTCGCAATATGGCGTTCTGAC	300
Db	AATATCTGAGGCGCGACGAGAGACGACGACGCGCTGTCTCGCAATATGGCGTTCTGAC	300
Qy	CCGCTAATACGAAAGAAACGAGCAA	327
Db	CCGCTAATACGAAAGAAACGAGCAA	327

RESULT 8	BD069327	327 bp	DNA	linear	PAT 27-AUG-2002
LOCUS	BD069327				
DEFINITION	Compounds and methods for immunotherapy and diagnosis of tuberculosis.				
ACCESSION	BD069327	1	GI:22614930		
VERSION	UP	2001517069-A/46.			
KEYWORDS	unidentified				
SOURCE	unclassified				
ORGANISM	unclassified				
REFERENCE	1 (bases 1 to 327)				
AUTHORS	Reed, S.G., Skelky, Y.A.W., Dillon, D.C., Neto, A.C., Houghton, R., Vedvick, T.H. and Twardzik, D.R.				
TITLE	Compounds and methods for immunotherapy and diagnosis of				
JOURNAL	Patent: JP 2001517069-A 46 02-OCT-2001;				
COMMENT	CORIXA CORP				
	CG	Unidentified			

FEATURES	SOURCE
PF	30-DEC-1996 JP 1997511464
PR	01-SEP-1995 US 06/552435, 22-SEP-1995 US 08/533634 PR
FR	22-MAR-1996 US 08/620874, 05-JUN-1996 US 08/655683 PR
PI	12-JUL-1996 US 08/680574
PI	STEVEN G REED, YASIR A W SKEIKY, DAVIN C DILLON, ANTONIO CAMPOS NETO,
PI	RAYMOND HOUGHTON, THOMAS H VEDYICK, DANIEL R TWARDZIK PC
CI	C12N5/31, C07K14/35, A61K38/16, C12N15/62, G01N33/569, C12Q1/68, PC
CI	C12N5/10,
PC	C12N1/21//A61K39/04, (C12N1/21, C12R1.19)
CC	Strandedness: Single;
CC	Topology: Linear;
CC	Compounds and methods for immunotherapy and diagnosis of CC tuberculosis
FH	Key
FT	source
FT	location/Qualifiers
FT	1..327
FT	location/Qualifiers
FT	1..327
FT	/organism='Unidentified'.
FT	1..337
FT	location/Qualifiers
FT	/organism='unidentified'
FT	/mol_type='genomic DNA'
FT	/db_xref='taxon:32644'
FT	/ad_xref='taxon:32644'
FT	79 a 95 c 111 g 42 t

Query Match	100.0%;	Score 327;	DB 6;	Length 327;
Best Local Similarity	100.0%;	Pred. No. 3,2e-55;		
Matches 327;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	CGGCACGAGACCGATGCGCGTACCTTCGCGGAGGAGGCGAGTAAATTTGAGCGGATCT	60	
D6	1	CGGACGAGAGACCGATGCGCGTACCTTCGCGGAGGAGGCGAGTAAATTTGAGCGGATCT	60	
QY	61	CCGCGCACTCTGAATAACCCAGATGCAGCGGTGAGTGCAGCGGATGTTGCTTGACGGGCC	120	
D6	61	CCGCGCACTCTGAATAACCCAGATGCAGCGGTGAGTGCAGCGGATGTTGCTTGACGGGCC	120	

	/db_xref=GI:3253157"
	/translation="MTREQNPFNGIEAASAIQGNVTSIHSLDDEKQSILKLAAAGMG
	GSGSEAYQGVYQQWMDATATELNALQ"
BASE COUNT	225 a 316 c 379 g 149 t
ORIGIN	
Query Match	97.2%; Score 318; DB 1; Length 1069;
Best Local Similarity	100.0%; Pred. No. 1.6e-53;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Dy	10 AGACCGATTGCCGCTAACCTTCGGCCGAGAGGCAGGTAAATTTTGAGCGGATCTCCGGCACC 69
Dd	538 AGACCGATTGCCGCTAACCTTCGGCCGAGAGGCAGGTAAATTTTGAGCGGATCTCCGGCACC 597
Dy	70 TGAATAACCCCAAGTGCACAGTAGTGAAGTGCACCGAGAGTTGCTTCCAGGGCCAGTGGCCGC 129
Dd	598 TGAATAACCCCAAGTGCACAGTAGTGAAGTGCACCGAGAGTTGCTTCCAGGGCCAGTGGCCGC 657
Dy	130 GGCGGGGGGAGCGGGCCGCCCAGGCGCGGGTGGGCGCTTCCAAGAAGCAGCCAAATAAGC 189
Dd	658 GGCGGGGGGAGCGGGCCGCCCAGGCGCGGGTGGGCGCTTCCAAGAAGCAGCCAAATAAGC 717
Dy	190 AGAAGCAGAAACTGCACGATCTGCACGAATATTCTCACGCGCGCGCTCCAAATACTCGA 249
Dd	718 AGAAGCAGAAACTGCACGATCTGCACGAATATTCTCACGCGCGCGCTCCAAATACTCGA 777
Dy	250 GGGCCGACGAGAGACGACGACGAGCGCTGTCTCTCCAAATGGAGCTTTCAGCCCGCTATA 309
Dd	778 GGGCCGACGAGAGACGACGAGCGCTGTCTCTCCAAATGGAGCTTTCAGCCCGCTATA 837
Dy	310 CGAAAAGAAACGAGCAA 327
Dd	838 CGAAAAGAAACGAGCAA 855
RESULT 10 ARI69208	
LOCUS	ARI69208 1616 bp DNA linear PAT 17-DEC-2001
DEFINITION	Sequence 112 from patent US 6290969.
ACCESSION	ARI69208
VERSION	ARI69208.1 GI:17907011
KEYWORDS	
SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	Unclassified.
AUTHORS	1 (bases 1 to 1616)
TITLE	Reed,S.G., Skelky,Y.A.W., Dillon,D.C., Campos-Neto,A., Houghton,R... Vedvick,T.S. and "Warzik,D.R. Compounds and methods for immunotherapy and diagnosis of tuberculosis Patent: US 6290969-A 112 18-SEP-2001; Location/Qualifiers 1..1616 /organism="unknown"
JOURNAL FEATURES	
BASE COUNT	331 a 501 c 550 g 234 t
ORIGIN	
Query Match	97.2%; Score 318; DB 6; Length 1616;
Best Local Similarity	100.0%; Pred. No. 1.5e-53;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Dy	10 AGACCGATTGCCGCTAACCTTCGGCCGAGAGGCAGGTAAATTTTGAGCGGATCTCCGGCACC 69
Dd	1232 AGACCGATTGCCGCTAACCTTCGGCCGAGAGGCAGGTAAATTTTGAGCGGATCTCCGGCACC 1291
Dy	70 TGAATAACCCCAAGTGCACAGTAGTGAAGTGCACCGAGAGTTGCTTCCAGGGCCAGTGGCCGC 129
Dd	1292 TGAATAACCCCAAGTGCACAGTAGTGAAGTGCACCGAGAGTTGCTTCCAGGGCCAGTGGCCGC 1351
Dy	130 GGCGGGGGGAGCGGGCCGCCCAGGCGCGGTGTGTGCTTCCAAGAAGCAGCCAAATAAGC 189
Dd	1352 GGCGGGGGGAGCGGGCCGCCCAGGCGCGGTGTGTGCTTCCAAGAAGCAGCCAAATAAGC 1411

QY 190 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCTGACGGCCGGCTCAATACTCGA 249
Db 1412 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCTGACGGCCGGCTCAATACTCGA 1471
QY 250 GGGCCGACGAGACGACGAGCGCTGCTCTCGCAATATGGGCTTCTGACCCGCTAATA 309
Db 1472 GGGCCGACGAGACGACGAGCGCTGCTCTCGCAATATGGGCTTCTGACCCGCTAATA 1531
QY 310 CGAAAAGAAACGAGCAA 327
Db 1532 CGAAAAGAAACGAGCAA 1549

RESULT 11
ARI82498 1616 bp DNA linear PAT 20-APR-2002
LOCUS ARI82498
DEFINITION Sequence 107 from patent US 633852.
ACCESSION ARI82498
VERSION ARI82498.1 GI:20225705
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1616)
AUTHORS Reed,S.G., Skelky,Y.A.W., Dillon,D.C., Campos-Neto,A., Houghton,R.,
Vedvick,T.S. and Twardzik,D.R.
TITLE Compounds and methods for diagnosis of tuberculosis
JOURNAL Patent: US 633852-A 107 15-JAN-2002;
FEATURES
Source Location/Qualifiers
1..1616
/organism="unknown"
BASE COUNT 331 a 501 c 550 g 234 t
ORIGIN

Query Match 97.2%; Score 318; DB 6; Length 1616;
Best Local Similarity 100.0%; Pred. No. 1.5e-53;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCGATGCGCTACCTCGCGCAGAGAGCGAGTAATTTGACGGATCTCCGGCAGC 69
Db 1232 AGACCGATGCGCTACCTCGCGCAGAGAGCGAGTAATTTGACGGATCTCCGGCAGC 1291
QY 70 TGAAGACCCGAGTCGACGAGTGTGAGTCGACGCGAGGTTGTTGACGGCCAGTGGCGG 129
Db 1292 TGAAGACCCGAGTCGACGAGTGTGAGTCGACGCGAGGTTGTTGACGGCCAGTGGCGG 1351
QY 130 GCGCGCGGGGAGCGCGCCCGCAGCGCGCTGCTTCCAAAGACGAGCCAAATAGC 189
Db 1352 GCGCGCGGGGAGCGCGCCCGCAGCGCGCTGCTTCCAAAGACGAGCCAAATAGC 1411
QY 190 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCTGACGGCCGGCTCAATACTCGA 249
Db 1412 AGAAGCAGAACTCGACGAGATCTCGACGAATATTCTGACGGCCGGCTCAATACTCGA 1471
QY 250 GGGCCGACGAGACGACGAGCGCTGCTCTCGCAATATGGGCTTCTGACCCGCTAATA 309
Db 1472 GGGCCGACGAGACGACGAGCGCTGCTCTCGCAATATGGGCTTCTGACCCGCTAATA 1531
QY 310 CGAAAAGAAACGAGCAA 327
Db 1532 CGAAAAGAAACGAGCAA 1549

RESULT 12
ARI94881 1616 bp DNA linear PAT 20-APR-2002
LOCUS ARI94881
DEFINITION Sequence 112 from patent US 6350456.
ACCESSION ARI94881
VERSION ARI94881.1 GI:20244318
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1616)
AUTHORS Reed,S.G., Skelky,Y.A.W., Dillon,D.C., Campos-Neto,A., Houghton,R.,
Vedvick,T.S. and Twardzik,D.R.
TITLE Compounds and methods for diagnosis of tuberculosis
JOURNAL Patent: US 6350456-A 112 26-FEB-2002;
FEATURES
Source Location/Qualifiers
1..1616
/organism="unknown"
BASE COUNT 331 a 501 c 550 g 234 t
ORIGIN

Query Match 97.2%; Score 318; DB 6; Length 1616;
Best Local Similarity 100.0%; Pred. No. 1.5e-53;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCGATGCGCTACCTCGCGCAGAGAGCGAGTAATTTGACGGATCTCCGGCAGC 69
Db 1232 AGACCGATGCGCTACCTCGCGCAGAGAGCGAGTAATTTGACGGATCTCCGGCAGC 1291
QY 70 TGAAGACCCGAGTCGACGAGTGTGAGTCGACGCGAGGTTGTTGACGGCCAGTGGCGG 129
Db 1292 TGAAGACCCGAGTCGACGAGTGTGAGTCGACGCGAGGTTGTTGACGGCCAGTGGCGG 1351

REFERENCE 1 (bases 1 to 1616)
AUTHORS Reed,S.G., Skelky,Y.A.W. and Dillon,D.C.
TITLE Compounds and methods for the prevention and treatment of M.
tuberculosis infection
JOURNAL Patent: US 6350456-A 112 26-FEB-2002;
FEATURES
Source Location/Qualifiers
1..1616
/organism="unknown"
BASE COUNT 331 a 501 c 550 g 234 t
ORIGIN

Query Match 97.2%; Score 318; DB 6; Length 1616;
Best Local Similarity 100.0%; Pred. No. 1.5e-53;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCGATGCGCTACCTCGCGCAGAGAGCGAGTAATTTGACGGATCTCCGGCAGC 69
Db 1232 AGACCGATGCGCTACCTCGCGCAGAGAGCGAGTAATTTGACGGATCTCCGGCAGC 1291
QY 70 TGAAGACCCGAGTCGACGAGTGTGAGTCGACGCGAGGTTGTTGACGGCCAGTGGCGG 129
Db 1292 TGAAGACCCGAGTCGACGAGTGTGAGTCGACGCGAGGTTGTTGACGGCCAGTGGCGG 1351

RESULT 13
AR233153 1616 bp DNA linear PAT 20-DEC-2002
LOCUS AR233153
DEFINITION Sequence 107 from patent US 6458366.
ACCESSION AR233153
VERSION AR233153.1 GI:27275589
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1616)
AUTHORS Reed,S.G., Skelky,Y.A.W., Dillon,D.C., Campos-Neto,A., Houghton,R.,
Vedvick,T.S., Twardzik,D.R., Lodes,M.J. and Hendrickson,R.C.
TITLE Compounds and methods for diagnosis of tuberculosis
JOURNAL Patent: US 6458366-A 107 01-OCT-2002;
FEATURES
Source Location/Qualifiers
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/organism="unknown"
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Query Match 97.2%; Score 318; DB 6; Length 1616;
Best Local Similarity 100.0%; Pred. No. 1.5e-53;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCGATGCGCTACCTCGCGCAGAGAGCGAGTAATTTGACGGATCTCCGGCAGC 69
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QY 70 TGAAGACCCGAGTCGACGAGTGTGAGTCGACGCGAGGTTGTTGACGGCCAGTGGCGG 129
Db 1292 TGAAGACCCGAGTCGACGAGTGTGAGTCGACGCGAGGTTGTTGACGGCCAGTGGCGG 1351

QY 130 GCGCGCGGAGACGCGCCCGCAGCGCGGTGTGCTTCCAGAGACGACCAATTAAC 189
 Db 1352 GCGCGCGCGGAGACGCGCCCGCAGCGCGGTGTGCTTCCAGAGAGCGCAATTAAC 1411
 QY 190 AGAAGAGAGAACTCCGAGATCTCGAAGAAATTTGTCAGCGCGGCTTCCAACTACTCA 249
 Db 1412 AGAAGAGAGAACTCCGAGATCTCGAAGAAATTTGTCAGCGCGGCTTCCAACTACTCA 1471
 QY 250 GGGCCGACAGAGAGAGAGAGAGCGGCTGTCTCGAAATGGGCTTCCAGCCGCTAATA 309
 Db 1472 GGGCCGACAGAGAGAGAGAGAGCGGCTGTCTCGAAATGGGCTTCCAGCCGCTAATA 1531
 QY 310 CGAAAAGAAAACGAGCAA 327
 Db 1532 CGAAAAGAAAACGAGCAA 1549

RESULT 14
 AX429704 1616 bp DNA linear PAT 21-JUN-2002
 LOCUS AX429704
 DEFINITION Sequence 112 from Patent EP1203817.
 ACCESSION AX429704
 VERSION AX429704.1 GI:21540901
 KEYWORDS
 SOURCE unidentified
 ORGANISM unidentified
 1 unclassified.

REFERENCE
 AUTHORS Reed,S.G., Skeiky,Y.A., Dillon,D.C., Campos-Neto,A., Houghton,R.L.,
 Vedvick,T.S. and Twardzik,D.R.
 TITLE Compounds and methods for immunotherapy and diagnosis of
 tuberculosis
 JOURNAL Patent: EP 1203817-A 112 08-MAY-2002;
 CORIXA CORPORATION (US)
 FEATURES
 source Location/Qualifiers
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 /organism="unidentified"
 /mol_type="genomic DNA"
 /db_xref="taxon:32644"

BASE COUNT 331 a 501 c 550 g 234 t

Query Match 97.2%; Score 318; DB 6; Length 1616;
 Best Local Similarity 100.0%; Pred. No. 1.5e-53;
 Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCGATCCGCTACCTCGCGCAGAGAGAGAGTAATTTCCAGCGGATTCGCGGAGCC 69
 Db 1232 AGACCGATCCGCTACCTCGCGCAGAGAGAGAGTAATTTCCAGCGGATTCGCGGAGCC 1291
 QY 70 TGAAGACCCAGATCGACGAGTGTGAGTTCGACGGGCTTGCAGGGGTCAGTGGCGGG 129
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 Db 1352 GCGCGCGGAGAGCGCGCCGCGCAGAGCGCGGTGTGCTTCCAGAGAGAGCAATTAAC 1411
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 Db 1412 AGAAGAGAGAACTCCGAGATCTCGAAGAAATTTGTCAGCGCGGCTTCCAACTACTCA 1471
 QY 250 GGGCCGACAGAGAGAGAGAGAGCGGCTGTCTCGAAATGGGCTTCCAGCCGCTAATA 309
 Db 1472 GGGCCGACAGAGAGAGAGAGAGCGGCTGTCTCGAAATGGGCTTCCAGCCGCTAATA 1531
 QY 310 CGAAAAGAAAACGAGCAA 327
 Db 1532 CGAAAAGAAAACGAGCAA 1549

RESULT 15
 BD006381

LOCUS BD006381 1616 bp DNA linear PAT 31-JUN-2002
 DEFINITION Compounds and methods for diagnosis of tuberculosis.
 ACCESSION BD006381
 VERSION BD006381.1 GI:18634752
 KEYWORDS JP 2001500383-A/60.
 SOURCE unidentified
 ORGANISM unidentified
 1 (bases 1 to 1616)
 unclassified.
 REFERENCE
 AUTHORS Reed,S.G., Skeiky,Y.A.W., Dillon,D.C., Neto,A.C., Houghton,R.,
 Vedvick,T.S., Twardzik,D.R. and Lodes,M.J.
 TITLE Compounds and methods for diagnosis of tuberculosis
 JOURNAL Patent: JP 2001500383-A 60 16-JUN-2001;
 CORIXA CORP
 OS Unidentified
 PN JP 2001500383-A/60
 PD 16-JUN-2001
 PF 07-OCT-1997 JP 1998518432
 PR 11-OCT-1996 US 08/729622,13-MAR-1997 US 08/818111 PI
 STEVEN G REED,YASIR A W SKEIKY,DAVIN C DILLON, PI ANTONIO CAMPOS
 NETO,
 PI RAYMOND HOUGHTON,THOMAS S. VEDVICK,DANIEL R TWARDZIK, PI
 MICHAEL J LODES
 PC C12N15/31,C07K14/35,C07K16/12,C12Q1/68,C12N15/62,G01N33/53 CC
 Strandedness: Single;
 CC Topology: Linear;
 FH Key Location/Qualifiers
 FT source 1.1616
 /organism="unidentified".

FEATURES

source Location/Qualifiers
 1.1616
 /organism="unidentified"
 /mol_type="genomic DNA"
 /db_xref="taxon:32644"

BASE COUNT 331 a 501 c 550 g 234 t

Query Match 97.2%; Score 318; DB 6; Length 1616;
 Best Local Similarity 100.0%; Pred. No. 1.5e-53;
 Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGACCGATCCGCTACCTCGCGCAGAGAGAGAGTAATTTCCAGCGGATTCGCGGAGCC 69
 Db 1232 AGACCGATCCGCTACCTCGCGCAGAGAGAGAGTAATTTCCAGCGGATTCGCGGAGCC 1291
 QY 70 TGAAGACCCAGATCGACGAGTGTGAGTTCGACGGGCTTGCAGGGGTCAGTGGCGGG 129
 Db 1292 TGAAGACCCAGATCGACGAGTGTGAGTTCGACGGGCTTGCAGGGGTCAGTGGCGGG 1351
 QY 130 GCGCGCGGAGAGCGCGCCGCGCAGAGCGCGGTGTGCTTCCAGAGAGAGCAATTAAC 189
 Db 1352 GCGCGCGGAGAGCGCGCCGCGCAGAGCGCGGTGTGCTTCCAGAGAGAGCAATTAAC 1411
 QY 190 AGAAGAGAGAACTCCGAGATCTCGAAGAAATTTGTCAGCGCGGCTTCCAACTACTCA 249
 Db 1412 AGAAGAGAGAACTCCGAGATCTCGAAGAAATTTGTCAGCGCGGCTTCCAACTACTCA 1471
 QY 250 GGGCCGACAGAGAGAGAGAGAGCGGCTGTCTCGAAATGGGCTTCCAGCCGCTAATA 309
 Db 1472 GGGCCGACAGAGAGAGAGAGAGCGGCTGTCTCGAAATGGGCTTCCAGCCGCTAATA 1531
 QY 310 CGAAAAGAAAACGAGCAA 327
 Db 1532 CGAAAAGAAAACGAGCAA 1549

Search completed: January 15, 2004, 06:42:23
 Job time : 1611 secs

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***** STN Columbus *****

=> file biosis,caba,caplus,embase,japio,lifesci,medline,scisearch,uspatfull

=> e reed steven/au

E1 4 REED STEVE I/AU
E2 1 REED STEVE M/AU
E3 13 --> REED STEVEN/AU
E4 1 REED STEVEN ANTHONY/AU
E5 1 REED STEVEN B/AU
E6 1 REED STEVEN C/AU
E7 1 REED STEVEN C SR/AU
E8 2 REED STEVEN F/AU
E9 413 REED STEVEN G/AU
E10 249 REED STEVEN I/AU
E11 1 REED STEVEN IRA/AU
E12 4 REED STEVEN J/AU

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"REED STEVEN ANTHONY"/AU OR "REED STEVEN B"/AU OR "REED STEVEN
C"/AU OR "REED STEVEN C SR"/AU OR "REED STEVEN F"/AU OR "REED
STEVEN G"/AU OR "REED STEVEN I"/AU OR "REED STEVEN IRA"/AU) AND
TUBERCULO?

=> dup rem l1

PROCESSING COMPLETED FOR L1

L2 111 DUP REM L1 (24 DUPLICATES REMOVED)

=> s l2 and tb38?

L3 5 L2 AND TB38?

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 5 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:265269 CAPLUS

DN 134:309685

TI Fusion proteins of Mycobacterium ***tuberculosis***

IN Skeiky, Yasir; ***Reed, Steven*** ; Houghton, Raymond L.; Mcneill,
Patricia D.; Dillon, Davin C.; Lodes, Michael L.

PA Corixa Corporation, USA

SO PCT Int. Appl., 168 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO	2001024820	A1	20010412	WO	2000-US28095	20001010
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,

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DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1229931 A1 20020814 EP 2000-970785 20001010
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL
PRAI US 1999-158338P P 19991007
US 1999-158425P P 19991007
WO 2000-US28095 W 20001010

AB The present invention relates to fusion proteins contg. at least two
Mycobacterium species antigens. In particular, it relates to nucleic
acids encoding fusion proteins that include two or more individual M.
tuberculosis antigens, which increase serol. sensitivity of sera
from individuals infected with ***tuberculosis***, and methods for
their use in the diagnosis, treatment, and prevention of
tuberculosis infection.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549126 CAPLUS

DN 131:183862

TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis

IN ***Reed, Steven G.*** ; Skeiky, Yasir A. W.; Dillon, Davin C.;
Campos-Neto, Antonio; Houghton, Raymond; Vedvick, Thomas S.; Twardzik,
Daniel R.; Lodes, Michael J.; Hendrickson, Ronald C.

PA Corixa Corporation, USA

SO PCT Int. Appl., 299 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9942076	A2	19990826	WO 1999-US3268	19990217
WO 9942076	A3	19991014		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6592877	B1	20030715	US 1998-72967	19980505
CA 2337638	AA	19990826	CA 1999-2337638	19990217
AU 9927663	A1	19990906	AU 1999-27663	19990217
EP 1071451	A2	20010131	EP 1999-908169	19990217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002503683	T2	20020205	JP 2000-532093	19990217
ZA 9901303	A	20000315	ZA 1999-1303	19990218
AU 765833	B2	20031002	AU 2000-71762	20001122
PRAI US 1998-25197	A	19980218		
US 1998-72967	A	19980505		

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US 1995-523436 B2 19950901
US 1995-533634 B2 19950922
US 1996-620874 B2 19960322
US 1996-659683 B2 19960605
US 1996-680574 B2 19960712
WO 1996-US14674 B2 19960830
AU 1996-71586 A3 19960930
US 1996-730510 B2 19961011
US 1997-818112 A2 19970313
US 1997-942578 B2 19971001
WO 1999-US3268 W 19990217

AB Comps. and methods for inducing protective immunity against
tuberculosis are disclosed. The compds. provided include
polypeptides that contain at least one immunogenic portion of one or more
Mycobacterium ***tuberculosis*** proteins and DNA mols. encoding such
polypeptides. Such compds. may be formulated into vaccines and/or
pharmaceutical compns. for immunization against M. ***tuberculosis***
infection, or may be used for the diagnosis of ***tuberculosis***.

L3 ANSWER 3 OF 5 USPATFULL on STN

AN 2003:213274 USPATFULL

TI Fusion proteins of mycobacterium ***tuberculosis*** antigens and
their uses

IN ***Reed, Steven G.***, Bellevue, WA, UNITED STATES

Skeiky, Yasir A., Bellevue, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Alderson, Mark, Bainbridge, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)

PI US 2003147911 A1 20030807

AI US 2003-359460 A1 20030205 (10)

RLI Continuation of Ser. No. US 1999-287849, filed on 7 Apr 1999, ABANDONED

Continuation-in-part of Ser. No. US 1998-223040, filed on 30 Dec 1998,

GRANTED, Pat. No. US 6544522 Continuation-in-part of Ser. No. US

1998-56556, filed on 7 Apr 1998, GRANTED, Pat. No. US 6350456

Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,

ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1

Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,

filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 13

ECL Exemplary Claim: 1

DRWN 68 Drawing Page(s)

LN.CNT 3971

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to fusion proteins containing at least two

Mycobacterium ***tuberculosis*** antigens. In particular, it relates
to bi-fusion proteins which contain two individual M.

tuberculosis antigens, tri-fusion proteins which contain three

M. ***tuberculosis*** antigens, tetra-fusion proteins which contain

four M. ***tuberculosis*** antigens, and penta-fusion proteins which

contain five M. ***tuberculosis*** antigens, and methods for their

THIS PAGE BLANK (US TO)

use in the diagnosis, treatment and prevention of ***tuberculosis***
infection.

L3 ANSWER 4 OF 5 USPATFULL on STN

AN 2003:206886 USPATFULL

TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis

IN ***Reed, Steven G.***, Bellevue, WA, UNITED STATES

Skeiky, Yasir A.W., Seattle, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

Houghton, Raymond, Bothell, WA, UNITED STATES

Vedvick, Thomas S., Federal Way, WA, UNITED STATES

Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES

Lodes, Michael J., Seattle, WA, UNITED STATES

Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)

PI US 2003143243 A1 20030731

AI US 2002-84843 A1 20020225 (10)

RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part
of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED
Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5
Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874,
filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US
1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of
Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED

PRAI WO 1996-US14674 19960830

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for inducing protective immunity against
tuberculosis are disclosed. The compounds provided include
polypeptides that contain at least one immunogenic portion of one or
more M. ***tuberculosis*** proteins and DNA molecules encoding such
polypeptides. Such compounds may be formulated into vaccines and/or
pharmaceutical compositions for immunization against M.
tuberculosis infection, or may be used for the diagnosis of
tuberculosis.

L3 ANSWER 5 OF 5 USPATFULL on STN

AN 2003:195215 USPATFULL

TI Compounds and methods for diagnosis of ***tuberculosis***

IN ***Reed, Steven G.***, Bellevue, WA, UNITED STATES

Skeiky, Yasir A.W., Seattle, WA, UNITED STATES

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Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

PI US 2003135026 A1 20030717

AI US 2002-193002 A1 20020710 (10)

RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED,
Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753,
filed on 18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US
1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser.
No. US 1997-818111, filed on 13 Mar 1997, GRANTED, Pat. No. US 6338852
Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996,
ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30
Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed
on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US
1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser.
No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part
of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation
of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 54

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** are
disclosed. The compounds provided include polypeptides that contain at
least one antigenic portion of one or more M. ***tuberculosis***
proteins, and DNA sequences encoding such polypeptides. Diagnostic kits
containing such polypeptides or DNA sequences and a suitable detection
reagent may be used for the detection of M. ***tuberculosis***
infection in patients and biological samples. Antibodies directed
against such polypeptides are also provided.

=> e skeiky yasir/au

E1 42 SKEIKY Y A/AU

E2 203 SKEIKY Y A W/AU

E3 17 --> SKEIKY YASIR/AU

E4 13 SKEIKY YASIR A/AU

E5 231 SKEIKY YASIR A W/AU

E6 1 SKEIKY YASIR AW/AU

E7 1 SKEIKY YASSIR A/AU

E8 4 SKEIL D/AU

E9 8 SKEIL D A/AU

E10 6 SKEIL D D/AU

E11 2 SKEIM P/AU

E12 1 SKEIN E V/AU

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=> s e1-e7 and tuberculosis

L4 192 ("SKEIKY Y A"/AU OR "SKEIKY Y A W"/AU OR "SKEIKY YASIR"/AU OR
"SKEIKY YASIR A"/AU OR "SKEIKY YASIR A W"/AU OR "SKEIKY YASIR
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=> dup rem l4

PROCESSING COMPLETED FOR L4

L5 100 DUP REM L4 (92 DUPLICATES REMOVED)

=> s l5 and tb38?

L6 7 L5 AND TB38?

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 7 ANSWERS - CONTINUE? Y/(N):y

L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:265269 CAPLUS

DN 134:309685

TI Fusion proteins of Mycobacterium ***tuberculosis***

IN ***Skeiky, Yasir*** ; Reed, Steven; Houghton, Raymond L.; McNeill,
Patricia D.; Dillon, Davin C.; Lodes, Michael L.

PA Corixa Corporation, USA

SO PCT Int. Appl., 168 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

PI	WO 2001024820	A1	20010412	WO 2000-US28095	20001010
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1229931	A1	20020814	EP 2000-970785	20001010
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRAI	US 1999-158338P	P	19991007		
	US 1999-158425P	P	19991007		
	WO 2000-US28095	W	20001010		

AB The present invention relates to fusion proteins contg. at least two
Mycobacterium species antigens. In particular, it relates to nucleic
acids encoding fusion proteins that include two or more individual M.
tuberculosis antigens, which increase serol. sensitivity of sera
from individuals infected with ***tuberculosis***, and methods for
their use in the diagnosis, treatment, and prevention of
tuberculosis infection.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549126 CAPLUS

DN 131:183862

TI Compounds and methods for immunotherapy and diagnosis of

tuberculosis

IN Reed, Steven G.; ***Skeiky, Yasir A. W.*** ; Dillon, Davin C.;
Campos-Neto, Antonio; Houghton, Raymond; Vedvick, Thomas S.; Twardzik,
Daniel R.; Lodes, Michael J.; Hendrickson, Ronald C.

PA Corixa Corporation, USA

SO PCT Int. Appl., 299 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9942076	A2	19990826	WO 1999-US3268	19990217
WO 9942076	A3	19991014		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6592877	B1	20030715	US 1998-72967	19980505
CA 2337638	AA	19990826	CA 1999-2337638	19990217
AU 9927663	A1	19990906	AU 1999-27663	19990217
EP 1071451	A2	20010131	EP 1999-908169	19990217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002503683	T2	20020205	JP 2000-532093	19990217
ZA 9901303	A	20000315	ZA 1999-1303	19990218
AU 765833	B2	20031002	AU 2000-71762	20001122
PRAI US 1998-25197	A	19980218		
US 1998-72967	A	19980505		
US 1995-523436	B2	19950901		
US 1995-533634	B2	19950922		
US 1996-620874	B2	19960322		
US 1996-659683	B2	19960605		
US 1996-680574	B2	19960712		
WO 1996-US14674	B2	19960830		
AU 1996-71586	A3	19960930		
US 1996-730510	B2	19961011		
US 1997-818112	A2	19970313		
US 1997-942578	B2	19971001		
WO 1999-US3268	W	19990217		

AB Compds. and methods for inducing protective immunity against
tuberculosis are disclosed. The compds. provided include
polypeptides that contain at least one immunogenic portion of one or more
Mycobacterium ***tuberculosis*** proteins and DNA mols. encoding such
polypeptides. Such compds. may be formulated into vaccines and/or
pharmaceutical compns. for immunization against M. ***tuberculosis***

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infection, or may be used for the diagnosis of ***tuberculosis*** .

L6 ANSWER 3 OF 7 USPATFULL on STN

AN 2003:250508 USPATFULL

TI Heterologous fusion protein constructs comprising a Leishmania antigen

IN ***Skeiky, Yasir*** , Bellevue, WA, UNITED STATES

Brannon, Mark, Seattle, WA, UNITED STATES

Guderian, Jeffrey, Lynwood, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES (U.S. corporation)

PI US 2003175294 A1 20030918

AI US 2002-98732 A1 20020313 (10)

PRAI US 2001-275837P 20010313 (60)

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH

FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 82

ECL Exemplary Claim: 1

DRWN 10 Drawing Page(s)

LN.CNT 6952

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a recombinant nucleic acid molecule encoding a fusion polypeptide, wherein the recombinant nucleic acid comprises a heterologous polynucleotide sequence encoding an antigen or an antigenic fragment, and a Leishmania polynucleotide sequence encoding a polypeptide or fragment thereof, wherein the Leishmania polynucleotide is selected from the group consisting of TSA polynucleotide, LeIF polynucleotide, M15 polynucleotide, and 6H polynucleotide. The invention also provides an expression cassette comprising the recombinant nucleic acid molecule, host cells comprising the expression cassette, compositions, fusion polypeptides, and methods of their use in diagnosis or in generating a protective immune response in hosts.

L6 ANSWER 4 OF 7 USPATFULL on STN

AN 2003:213274 USPATFULL

TI Fusion proteins of mycobacterium ***tuberculosis*** antigens and their uses

IN Reed, Steven G., Bellevue, WA, UNITED STATES

Skeiky, Yasir A. , Bellevue, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Alderson, Mark, Bainbridge, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)

PI US 2003147911 A1 20030807

AI US 2003-359460 A1 20030205 (10)

RLI Continuation of Ser. No. US 1999-287849, filed on 7 Apr 1999, ABANDONED

Continuation-in-part of Ser. No. US 1998-223040, filed on 30 Dec 1998,

GRANTED, Pat. No. US 6544522 Continuation-in-part of Ser. No. US

1998-56556, filed on 7 Apr 1998, GRANTED, Pat. No. US 6350456

Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,

ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1

Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,

filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969

DT Utility

FS APPLICATION

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LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 13

ECL Exemplary Claim: 1

DRWN 68 Drawing Page(s)

LN.CNT 3971

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to fusion proteins containing at least two Mycobacterium ***tuberculosis*** antigens. In particular, it relates to bi-fusion proteins which contain two individual M. ***tuberculosis*** antigens, tri-fusion proteins which contain three M. ***tuberculosis*** antigens, tetra-fusion proteins which contain four M. ***tuberculosis*** antigens, and penta-fusion proteins which contain five M. ***tuberculosis*** antigens, and methods for their use in the diagnosis, treatment and prevention of ***tuberculosis*** infection.

L6 ANSWER 5 OF 7 USPATFULL on STN

AN 2003:206886 USPATFULL

TI Compounds and methods for immunotherapy and diagnosis of ***tuberculosis***

IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

Houghton, Raymond, Bothell, WA, UNITED STATES

Vedvick, Thomas S., Federal Way, WA, UNITED STATES

Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES

Lodes, Michael J., Seattle, WA, UNITED STATES

Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)

PI US 2003143243 A1 20030731

AI US 2002-84843 A1 20020225 (10)

RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part
of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED
Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5
Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874,
filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US
1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of
Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED

PRAI WO 1996-US14674 19960830

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

HIS PAGE BLANK (US. TO)

AB Compounds and methods for inducing protective immunity against ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one immunogenic portion of one or more M. ***tuberculosis*** proteins and DNA molecules encoding such polypeptides. Such compounds may be formulated into vaccines and/or pharmaceutical compositions for immunization against M. ***tuberculosis*** infection, or may be used for the diagnosis of ***tuberculosis***.

L6 ANSWER 6 OF 7 USPATFULL on STN

AN 2003:195215 USPATFULL

TI Compounds and methods for diagnosis of ***tuberculosis***

IN Reed, Steven G., Bellevue, WA, UNITED STATES

Skeiky, Yasir A.W., Seattle, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

Houghton, Raymond, Bothell, WA, UNITED STATES

Vedvick, Thomas S., Federal Way, WA, UNITED STATES

Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES

Lodes, Michael J., Seattle, WA, UNITED STATES

Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

PI US 2003135026 A1 20030717

AI US 2002-193002 A1 20020710 (10)

RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED, Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753, filed on 18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US 1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818111, filed on 13 Mar 1997, GRANTED, Pat. No. US 6338852 Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996, ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30 Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 54

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one antigenic portion of one or more M. ***tuberculosis*** proteins, and DNA sequences encoding such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of M. ***tuberculosis*** infection in patients and biological samples. Antibodies directed against such polypeptides are also provided.

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L6 ANSWER 7 OF 7 USPATFULL on STN
AN 2002:185292 USPATFULL
TI Compounds and methods for diagnosis and immunotherapy of
tuberculosis
IN Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Skeiky, Yasir, Seattle, WA, UNITED STATES
Ovendale, Pamela, Everett, WA, UNITED STATES
Jen, Shyian, Seattle, WA, UNITED STATES
Lodes, Michael, Seattle, WA, UNITED STATES
PI US 2002098200 A1 20020725
AI US 2001-793306 A1 20010226 (9)
PRAI US 2000-223828P 20000808 (60)
US 2000-185037P 20000225 (60)
DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 51
ECL Exemplary Claim: 1
DRWN 18 Drawing Page(s)
LN.CNT 6182
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compounds and methods for diagnosing ***tuberculosis*** or for
inducing protective immunity against ***tuberculosis*** are
disclosed. The compounds provided include polypeptides that contain at
least one immunogenic portion of one or more Mycobacterium proteins and
DNA molecules encoding such polypeptides. Diagnostic kits containing
such polypeptides or DNA sequences and a suitable detection reagent may
be used for the detection of Mycobacterium infection in patients and
biological samples. Antibodies directed against such polypeptides are
also provided. In addition, such compounds may be formulated into
vaccines and/or pharmaceutical compositions for immunization against
Mycobacterium infection.

=> e dillon davin/au

E1 1 DILLON DAVID MICHAEL/AU
E2 1 DILLON DAVID S/AU
E3 7 --> DILLON DAVIN/AU
E4 233 DILLON DAVIN C/AU
E5 2 DILLON DAVIN CLIFFORD/AU
E6 24 DILLON DEBORAH/AU
E7 12 DILLON DEBORAH A/AU
E8 9 DILLON DEBORAH L/AU
E9 3 DILLON DEBRA W/AU
E10 2 DILLON DECEASED JOHN B/AU
E11 1 DILLON DECEASED JOHN BRADLY/AU
E12 10 DILLON DEIRDRE A/AU

=> s e3-e5 and tuberculosis

L7 113 ("DILLON DAVIN"/AU OR "DILLON DAVIN C"/AU OR "DILLON DAVIN CLIFF
ORD"/AU) AND TUBERCULOSIS

=> dup rem l7

PROCESSING COMPLETED FOR L7

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L8 94 DUP REM L7 (19 DUPLICATES REMOVED)

=> s l8 and tb38?

L9 5 L8 AND TB38?

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 5 ANSWERS - CONTINUE? Y/(N):y

L9 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:265269 CAPLUS

DN 134:309685

TI Fusion proteins of Mycobacterium ***tuberculosis***

IN Skeiky, Yasir; Reed, Steven; Houghton, Raymond L.; Mcneill, Patricia D.;

Dillon, Davin C. ; Lodes, Michael L.

PA Corixa Corporation, USA

SO PCT Int. Appl., 168 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2001024820	A1	20010412	WO 2000-US28095	20001010
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1229931	A1	20020814	EP 2000-970785	20001010
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

PRAI US 1999-158338P P 19991007

US 1999-158425P P 19991007

WO 2000-US28095 W 20001010

AB The present invention relates to fusion proteins contg. at least two

Mycobacterium species antigens. In particular, it relates to nucleic acids encoding fusion proteins that include two or more individual M.

tuberculosis antigens, which increase serol. sensitivity of sera from individuals infected with ***tuberculosis***, and methods for their use in the diagnosis, treatment, and prevention of

tuberculosis infection.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549126 CAPLUS

DN 131:183862

TI Compounds and methods for immunotherapy and diagnosis of

tuberculosis

IN Reed, Steven G.; Skeiky, Yasir A. W.; ***Dillon, Davin C.*** ;

Campos-Neto, Antonio; Houghton, Raymond; Vedvick, Thomas S.; Twardzik,

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Daniel R.; Lodes, Michael J.; Hendrickson, Ronald C.

PA Corixa Corporation, USA

SO PCT Int. Appl., 299 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9942076	A2	19990826	WO 1999-US3268	19990217
WO 9942076	A3	19991014		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6592877	B1	20030715	US 1998-72967	19980505
CA 2337638	AA	19990826	CA 1999-2337638	19990217
AU 9927663	A1	19990906	AU 1999-27663	19990217
EP 1071451	A2	20010131	EP 1999-908169	19990217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002503683	T2	20020205	JP 2000-532093	19990217
ZA 9901303	A	20000315	ZA 1999-1303	19990218
AU 765833	B2	20031002	AU 2000-71762	20001122
PRAI US 1998-25197	A	19980218		
US 1998-72967	A	19980505		
US 1995-523436	B2	19950901		
US 1995-533634	B2	19950922		
US 1996-620874	B2	19960322		
US 1996-659683	B2	19960605		
US 1996-680574	B2	19960712		
WO 1996-US14674	B2	19960830		
AU 1996-71586	A3	19960930		
US 1996-730510	B2	19961011		
US 1997-818112	A2	19970313		
US 1997-942578	B2	19971001		
WO 1999-US3268	W	19990217		

AB Comps. and methods for inducing protective immunity against ***tuberculosis*** are disclosed. The comps. provided include polypeptides that contain at least one immunogenic portion of one or more Mycobacterium ***tuberculosis*** proteins and DNA mols. encoding such polypeptides. Such comps. may be formulated into vaccines and/or pharmaceutical comps. for immunization against M. ***tuberculosis*** infection, or may be used for the diagnosis of ***tuberculosis***.

L9 ANSWER 3 OF 5 USPATFULL on STN

AN 2003:213274 USPATFULL

TI Fusion proteins of mycobacterium ***tuberculosis*** antigens and their uses

IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A., Bellevue, WA, UNITED STATES

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Dillon, Davin C. , Redmond, WA, UNITED STATES
Alderson, Mark, Bainbridge, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
PA Corixa Corporation, Seattle, WA (U.S. corporation)
PI US 2003147911 A1 20030807
AI US 2003-359460 A1 20030205 (10)
RLI Continuation of Ser. No. US 1999-287849, filed on 7 Apr 1999, ABANDONED
Continuation-in-part of Ser. No. US 1998-223040, filed on 30 Dec 1998,
GRANTED, Pat. No. US 6544522 Continuation-in-part of Ser. No. US
1998-56556, filed on 7 Apr 1998, GRANTED, Pat. No. US 6350456
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969
DT Utility
FS APPLICATION
LREF TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 68 Drawing Page(s)
LN.CNT 3971
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to fusion proteins containing at least two
Mycobacterium ***tuberculosis*** antigens. In particular, it relates
to bi-fusion proteins which contain two individual M.
tuberculosis antigens, tri-fusion proteins which contain three
M. ***tuberculosis*** antigens, tetra-fusion proteins which contain
four M. ***tuberculosis*** antigens, and penta-fusion proteins which
contain five M. ***tuberculosis*** antigens, and methods for their
use in the diagnosis, treatment and prevention of ***tuberculosis***
infection.

L9 ANSWER 4 OF 5 USPATFULL on STN
AN 2003:206886 USPATFULL
TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis
IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C. , Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES
PA Corixa Corporation, Seattle, WA (U.S. corporation)
PI US 2003143243 A1 20030731
AI US 2002-84843 A1 20020225 (10)
RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part
of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED

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Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5
Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874,
filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US
1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of
Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED

PRAI WO 1996-US14674 19960830

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for inducing protective immunity against
tuberculosis are disclosed. The compounds provided include
polypeptides that contain at least one immunogenic portion of one or
more M. ***tuberculosis*** proteins and DNA molecules encoding such
polypeptides. Such compounds may be formulated into vaccines and/or
pharmaceutical compositions for immunization against M.
tuberculosis infection, or may be used for the diagnosis of
tuberculosis.

L9 ANSWER 5 OF 5 USPATFULL on STN

AN 2003:195215 USPATFULL

TI Compounds and methods for diagnosis of ***tuberculosis***

IN Reed, Steven G., Bellevue, WA, UNITED STATES

Skeiky, Yasir A.W., Seattle, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

Houghton, Raymond, Bothell, WA, UNITED STATES

Vedvick, Thomas S., Federal Way, WA, UNITED STATES

Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES

Lodes, Michael J., Seattle, WA, UNITED STATES

Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

PI US 2003135026 A1 20030717

AI US 2002-193002 A1 20020710 (10)

RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED,
Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753,
filed on 18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US
1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser.
No. US 1997-818111, filed on 13 Mar 1997, GRANTED, Pat. No. US 6338852
Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996,
ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30
Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed
on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US
1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser.
No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part
of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation
of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED

DT Utility

FS APPLICATION

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LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 54

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one antigenic portion of one or more M. ***tuberculosis*** proteins, and DNA sequences encoding such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of M. ***tuberculosis*** infection in patients and biological samples. Antibodies directed against such polypeptides are also provided.

=> e campos neto antonio/au

E1 1 CAMPOS NETO A */AU
E2 1 CAMPOS NETO A C/AU
E3 125 --> CAMPOS NETO ANTONIO/AU
E4 1 CAMPOS NETO C/AU
E5 1 CAMPOS NETO C DE M/AU
E6 1 CAMPOS NETO C M/AU
E7 1 CAMPOS NETO CANTIDIO DE MOURA/AU
E8 4 CAMPOS NETO H M/AU
E9 1 CAMPOS NETO J DE S/AU
E10 1 CAMPOS NETO J M/AU
E11 1 CAMPOS NETO J P/AU
E12 3 CAMPOS NETO J S/AU

=> s e1-e3 and tuberculosis

L10 61 ("CAMPOS NETO A */AU OR "CAMPOS NETO A C"/AU OR "CAMPOS NETO ANTONIO"/AU) AND TUBERCULOSIS

=> dup rem l10

PROCESSING COMPLETED FOR L10

L11 45 DUP REM L10 (16 DUPLICATES REMOVED)

=> s l11 and tb38?

L12 5 L11 AND TB38?

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 5 ANSWERS - CONTINUE? Y/(N):y

L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549126 CAPLUS

DN 131:183862

TI Compounds and methods for immunotherapy and diagnosis of ***tuberculosis***

IN Reed, Steven G.; Skeiky, Yasir A. W.; Dillon, Davin C.; ***Campos-Neto,***

*** Antonio***; Houghton, Raymond; Vedvick, Thomas S.; Twardzik, Daniel R.;

Lodes, Michael J.; Hendrickson, Ronald C.

PA Corixa Corporation, USA

SO PCT Int. Appl., 299 pp.

THIS PAGE BLANK (US TO)

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9942076	A2	19990826	WO 1999-US3268	19990217
WO 9942076	A3	19991014		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6592877	B1	20030715	US 1998-72967	19980505
CA 2337638	AA	19990826	CA 1999-2337638	19990217
AU 9927663	A1	19990906	AU 1999-27663	19990217
EP 1071451	A2	20010131	EP 1999-908169	19990217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002503683	T2	20020205	JP 2000-532093	19990217
ZA 9901303	A	20000315	ZA 1999-1303	19990218
AU 765833	B2	20031002	AU 2000-71762	20001122
PRAI US 1998-25197	A	19980218		
US 1998-72967	A	19980505		
US 1995-523436	B2	19950901		
US 1995-533634	B2	19950922		
US 1996-620874	B2	19960322		
US 1996-659683	B2	19960605		
US 1996-680574	B2	19960712		
WO 1996-US14674	B2	19960830		
AU 1996-71586	A3	19960930		
US 1996-730510	B2	19961011		
US 1997-818112	A2	19970313		
US 1997-942578	B2	19971001		
WO 1999-US3268	W	19990217		

AB Comps. and methods for inducing protective immunity against ***tuberculosis*** are disclosed. The comps. provided include polypeptides that contain at least one immunogenic portion of one or more Mycobacterium ***tuberculosis*** proteins and DNA mols. encoding such polypeptides. Such comps. may be formulated into vaccines and/or pharmaceutical comps. for immunization against M. ***tuberculosis*** infection, or may be used for the diagnosis of ***tuberculosis***.

L12 ANSWER 2 OF 5 USPATFULL on STN

AN 2003:213274 USPATFULL

TI Fusion proteins of mycobacterium ***tuberculosis*** antigens and their uses

IN Reed, Steven G., Bellevue, WA, UNITED STATES

Skeiky, Yasir A., Bellevue, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Alderson, Mark, Bainbridge, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

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PA Corixa Corporation, Seattle, WA (U.S. corporation)
PI US 2003147911 A1 20030807
AI US 2003-359460 A1 20030205 (10)
RLI Continuation of Ser. No. US 1999-287849, filed on 7 Apr 1999, ABANDONED
Continuation-in-part of Ser. No. US 1998-223040, filed on 30 Dec 1998,
GRANTED, Pat. No. US 6544522 Continuation-in-part of Ser. No. US
1998-56556, filed on 7 Apr 1998, GRANTED, Pat. No. US 6350456
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969
DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 68 Drawing Page(s)
LN.CNT 3971
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to fusion proteins containing at least two
Mycobacterium ***tuberculosis*** antigens. In particular, it relates
to bi-fusion proteins which contain two individual M.
tuberculosis antigens, tri-fusion proteins which contain three
M. ***tuberculosis*** antigens, tetra-fusion proteins which contain
four M. ***tuberculosis*** antigens, and penta-fusion proteins which
contain five M. ***tuberculosis*** antigens, and methods for their
use in the diagnosis, treatment and prevention of ***tuberculosis***
infection.

L12 ANSWER 3 OF 5 USPATFULL on STN
AN 2003:206886 USPATFULL
TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis
IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES
PA Corixa Corporation, Seattle, WA (U.S. corporation)
PI US 2003143243 A1 20030731
AI US 2002-84843 A1 20020225 (10)
RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part
of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED
Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5
Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874,

THIS PAGE BLANK (US TO)

filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US
1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of
Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED

PRAI WO 1996-US14674 19960830

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for inducing protective immunity against
tuberculosis are disclosed. The compounds provided include
polypeptides that contain at least one immunogenic portion of one or
more M. ***tuberculosis*** proteins and DNA molecules encoding such
polypeptides. Such compounds may be formulated into vaccines and/or
pharmaceutical compositions for immunization against M.
tuberculosis infection, or may be used for the diagnosis of
tuberculosis.

L12 ANSWER 4 OF 5 USPATFULL on STN

AN 2003:195215 USPATFULL

TI Compounds and methods for diagnosis of ***tuberculosis***

IN Reed, Steven G., Bellevue, WA, UNITED STATES

Skeiky, Yasir A.W., Seattle, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

Houghton, Raymond, Bothell, WA, UNITED STATES

Vedvick, Thomas S., Federal Way, WA, UNITED STATES

Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES

Lodes, Michael J., Seattle, WA, UNITED STATES

Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

PI US 2003135026 A1 20030717

AI US 2002-193002 A1 20020710 (10)

RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED,
Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753,
filed on 18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US
1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser.
No. US 1997-818111, filed on 13 Mar 1997, GRANTED, Pat. No. US 6338852
Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996,
ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30
Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed
on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US
1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser.
No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part
of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation
of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 54

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ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 9455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one antigenic portion of one or more M. ***tuberculosis*** proteins, and DNA sequences encoding such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of M. ***tuberculosis*** infection in patients and biological samples. Antibodies directed against such polypeptides are also provided.

L12 ANSWER 5 OF 5 USPATFULL on STN

AN 2002:185292 USPATFULL

TI Compounds and methods for diagnosis and immunotherapy of
tuberculosis

IN ***Campos-Neto, Antonio*** , Bainbridge Island, WA, UNITED STATES
Skeiky, Yasir, Seattle, WA, UNITED STATES
Ovendale, Pamela, Everett, WA, UNITED STATES
Jen, Shyian, Seattle, WA, UNITED STATES
Lodes, Michael, Seattle, WA, UNITED STATES

PI US 2002098200 A1 20020725

AI US 2001-793306 A1 20010226 (9)

PRAI US 2000-223828P 20000808 (60)

US 2000-185037P 20000225 (60)

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 51

ECL Exemplary Claim: 1

DRWN 18 Drawing Page(s)

LN.CNT 6182

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** or for inducing protective immunity against ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one immunogenic portion of one or more Mycobacterium proteins and DNA molecules encoding such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of Mycobacterium infection in patients and biological samples. Antibodies directed against such polypeptides are also provided. In addition, such compounds may be formulated into vaccines and/or pharmaceutical compositions for immunization against Mycobacterium infection.

=> e houghton raymond/au

E1 1 HOUGHTON RAY/AU

E2 3 HOUGHTON RAY L/AU

E3 46 --> HOUGHTON RAYMOND/AU

E4 165 HOUGHTON RAYMOND L/AU

E5 1 HOUGHTON REBECCA/AU

E6 3 HOUGHTON RICHARD/AU

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E7 21 HOUGHTON RICHARD A/AU
E8 4 HOUGHTON RICHARD B/AU
E9 2 HOUGHTON RICHARD C/AU
E10 2 HOUGHTON RICHARD D/AU
E11 10 HOUGHTON RICHARD DAVID/AU
E12 1 HOUGHTON RICHARD JOHN/AU

=> s e1-e4 and tuberculosis

L13 72 ("HOUGHTON RAY"/AU OR "HOUGHTON RAY L"/AU OR "HOUGHTON RAYMOND"/
AU OR "HOUGHTON RAYMOND L"/AU) AND TUBERCULOSIS

=> dup rem l13

PROCESSING COMPLETED FOR L13

L14 59 DUP REM L13 (13 DUPLICATES REMOVED)

=> s l14 and tb38?

L15 4 L14 AND TB38?

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

L15 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:265269 CAPLUS

DN 134:309685

TI Fusion proteins of Mycobacterium ***tuberculosis***

IN Skeiky, Yasir; Reed, Steven; ***Houghton, Raymond L.*** ; Mcneill,
Patricia D.; Dillon, Davin C.; Lodes, Michael L.

PA Corixa Corporation, USA

SO PCT Int. Appl., 168 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO	2001024820	A1	20010412	WO	2000-US28095	20001010
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP	1229931	A1	20020814	EP	2000-970785	20001010
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL

PRAI US 1999-158338P P 19991007

US 1999-158425P P 19991007

WO 2000-US28095 W 20001010

AB The present invention relates to fusion proteins contg. at least two

Mycobacterium species antigens. In particular, it relates to nucleic
acids encoding fusion proteins that include two or more individual M.

tuberculosis antigens, which increase serol. sensitivity of sera

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from individuals infected with ***tuberculosis*** , and methods for
their use in the diagnosis, treatment, and prevention of
tuberculosis infection.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549126 CAPLUS

DN 131:183862

TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis

IN Reed, Steven G.; Skeiky, Yasir A. W.; Dillon, Davin C.; Campos-Neto,
Antonio; ***Houghton, Raymond*** ; Vedvick, Thomas S.; Twardzik, Daniel
R.; Lodes, Michael J.; Hendrickson, Ronald C.

PA Corixa Corporation, USA

SO PCT Int. Appl., 299 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9942076	A2	19990826	WO 1999-US3268	19990217
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WO 9942076	A3	19991014		
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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,

DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,

KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,

MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,

TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,

CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6592877	B1	20030715	US 1998-72967	19980505
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CA 2337638	AA	19990826	CA 1999-2337638	19990217
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AU 9927663	A1	19990906	AU 1999-27663	19990217
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EP 1071451	A2	20010131	EP 1999-908169	19990217
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

JP 2002503683	T2	20020205	JP 2000-532093	19990217
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ZA 9901303	A	20000315	ZA 1999-1303	19990218
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AU 765833	B2	20031002	AU 2000-71762	20001122
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PRAI US 1998-25197 A 19980218

US 1998-72967	A	19980505		
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US 1995-523436	B2	19950901		
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US 1995-533634	B2	19950922		
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US 1996-620874	B2	19960322		
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US 1996-659683	B2	19960605		
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US 1996-680574	B2	19960712		
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WO 1996-US14674	B2	19960830		
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AU 1996-71586	A3	19960930		
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US 1996-730510	B2	19961011		
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US 1997-818112	A2	19970313		
----------------	----	----------	--	--

US 1997-942578	B2	19971001		
----------------	----	----------	--	--

WO 1999-US3268	W	19990217		
----------------	---	----------	--	--

AB Compds. and methods for inducing protective immunity against

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tuberculosis are disclosed. The compds. provided include polypeptides that contain at least one immunogenic portion of one or more Mycobacterium ***tuberculosis*** proteins and DNA mols. encoding such polypeptides. Such compds. may be formulated into vaccines and/or pharmaceutical compns. for immunization against M. ***tuberculosis*** infection, or may be used for the diagnosis of ***tuberculosis*** .

L15 ANSWER 3 OF 4 USPATFULL on STN

AN 2003:206886 USPATFULL

TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis

IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond , Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)

PI US 2003143243 A1 20030731

AI US 2002-84843 A1 20020225 (10)

RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part
of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED
Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5
Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874,
filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US
1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of
Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED

PRAI WO 1996-US14674 19960830

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for inducing protective immunity against
tuberculosis are disclosed. The compounds provided include
polypeptides that contain at least one immunogenic portion of one or
more M. ***tuberculosis*** proteins and DNA molecules encoding such
polypeptides. Such compounds may be formulated into vaccines and/or
pharmaceutical compositions for immunization against M.
tuberculosis infection, or may be used for the diagnosis of
tuberculosis .

L15 ANSWER 4 OF 4 USPATFULL on STN

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AN 2003:195215 USPATFULL
 TI Compounds and methods for diagnosis of ***tuberculosis***
 IN Reed, Steven G., Bellevue, WA, UNITED STATES
 Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
 Dillon, Davin C., Redmond, WA, UNITED STATES
 Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
 Houghton, Raymond, Bothell, WA, UNITED STATES
 Vedvick, Thomas S., Federal Way, WA, UNITED STATES
 Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
 Lodes, Michael J., Seattle, WA, UNITED STATES
 Hendrickson, Ronald C., Seattle, WA, UNITED STATES
 PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)
 PI US 2003135026 A1 20030717
 AI US 2002-193002 A1 20020710 (10)
 RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED,
 Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753,
~~filed on 18 Feb 1998, ABANDONED~~ Continuation-in-part of Ser. No. US
 1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser.
 No. US 1997-818111, filed on 13 Mar 1997, GRANTED, Pat. No. US 6338852
 Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996,
 ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30
 Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed
 on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US
 1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser.
 No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part
 of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation
 of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED
 DT Utility
 FS APPLICATION
 LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
 FLOOR, SAN FRANCISCO, CA, 94111-3834
 CLMN Number of Claims: 54
 ECL Exemplary Claim: 1
 DRWN 19 Drawing Page(s)
 LN.CNT 9455
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Compounds and methods for diagnosing ***tuberculosis*** are
 disclosed. The compounds provided include polypeptides that contain at
 least one antigenic portion of one or more M. ***tuberculosis***
 proteins, and DNA sequences encoding such polypeptides. Diagnostic kits
 containing such polypeptides or DNA sequences and a suitable detection
 reagent may be used for the detection of M. ***tuberculosis***
 infection in patients and biological samples. Antibodies directed
 against such polypeptides are also provided.
 => e vedvick thomas/au
 E1 192 VEDVICK T S/AU
 E2 1 VEDVICK TH S/AU
 E3 14 --> VEDVICK THOMAS/AU
 E4 1 VEDVICK THOMAS A/AU
 E5 2 VEDVICK THOMAS H/AU
 E6 146 VEDVICK THOMAS S/AU
 E7 2 VEDVICK THOMAS SCOTT/AU
 E8 3 VEDVICK TOM/AU

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E9 1 VEDVIG MATT/AU
E10 3 VEDVIK A/AU
E11 5 VEDVIK ANDREW H/AU
E12 1 VEDVIK ANNE/AU

=> s e1-e8 and tuberculosis

L16 71 ("VEDVICK T S"/AU OR "VEDVICK TH S"/AU OR "VEDVICK THOMAS"/AU
OR "VEDVICK THOMAS A"/AU OR "VEDVICK THOMAS H"/AU OR "VEDVICK
THOMAS S"/AU OR "VEDVICK THOMAS SCOTT"/AU OR "VEDVICK TOM"/AU)
AND TUBERCULOSIS

=> dup rem l16

PROCESSING COMPLETED FOR L16

L17 50 DUP REM L16 (21 DUPLICATES REMOVED)

=> s l17 and tb38?

L18 3 L17 AND TB38?

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L18 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549126 CAPLUS

DN 131:183862

TI Compounds and methods for immunotherapy and diagnosis of

tuberculosis

IN Reed, Steven G.; Skeiky, Yasir A. W.; Dillon, Davin C.; Campos-Neto,
Antonio; Houghton, Raymond; ***Vedvick, Thomas S.*** ; Twardzik, Daniel
R.; Lodes, Michael J.; Hendrickson, Ronald C.

PA Corixa Corporation, USA

SO PCT Int. Appl., 299 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9942076	A2	19990826	WO 1999-US3268	19990217
WO 9942076	A3	19991014		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6592877	B1	20030715	US 1998-72967	19980505
CA 2337638	AA	19990826	CA 1999-2337638	19990217
AU 9927663	A1	19990906	AU 1999-27663	19990217
EP 1071451	A2	20010131	EP 1999-908169	19990217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002503683	T2	20020205	JP 2000-532093	19990217
ZA 9901303	A	20000315	ZA 1999-1303	19990218

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AU 765833 B2 20031002 AU 2000-71762 20001122
PRAI US 1998-25197 A 19980218
US 1998-72967 A 19980505
US 1995-523436 B2 19950901
US 1995-533634 B2 19950922
US 1996-620874 B2 19960322
US 1996-659683 B2 19960605
US 1996-680574 B2 19960712
WO 1996-US14674 B2 19960830
AU 1996-71586 A3 19960930
US 1996-730510 B2 19961011
US 1997-818112 A2 19970313
US 1997-942578 B2 19971001
WO 1999-US3268 W 19990217

AB Comps. and methods for inducing protective immunity against
tuberculosis are disclosed. The comps. provided include
polypeptides that contain at least one immunogenic portion of one or more
Mycobacterium ***tuberculosis*** proteins and DNA mols. encoding such
polypeptides. Such comps. may be formulated into vaccines and/or
pharmaceutical comps. for immunization against M. ***tuberculosis***
infection, or may be used for the diagnosis of ***tuberculosis***.

L18 ANSWER 2 OF 3 USPATFULL on STN

AN 2003:206886 USPATFULL

TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis

IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)

PI US 2003143243 A1 20030731

AI US 2002-84843 A1 20020225 (10)

RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part
of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED
Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5
Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874,
filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US
1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of
Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED

PRAI WO 1996-US14674 19960830

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

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CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for inducing protective immunity against ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one immunogenic portion of one or more M. ***tuberculosis*** proteins and DNA molecules encoding such polypeptides. Such compounds may be formulated into vaccines and/or pharmaceutical compositions for immunization against M. ***tuberculosis*** infection, or may be used for the diagnosis of ***tuberculosis***.

L18 ANSWER 3 OF 3 USPATFULL on STN

AN 2003:195215 USPATFULL

TI Compounds and methods for diagnosis of ***tuberculosis***

IN Reed, Steven G., Bellevue, WA, UNITED STATES

Skeiky, Yasir A.W., Seattle, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

Houghton, Raymond, Bothell, WA, UNITED STATES

Vedvick, Thomas S., Federal Way, WA, UNITED STATES

Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES

Lodes, Michael J., Seattle, WA, UNITED STATES

Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

PI US 2003135026 A1 20030717

AI US 2002-193002 A1 20020710 (10)

RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED, Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753, filed on 18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US 1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818111, filed on 13 Mar 1997, GRANTED, Pat. No. US 6338852 Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996, ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30 Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 54

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one antigenic portion of one or more M. ***tuberculosis*** proteins, and DNA sequences encoding such polypeptides. Diagnostic kits

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containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of M. ***tuberculosis*** infection in patients and biological samples. Antibodies directed against such polypeptides are also provided.

=> e twardzik daniel/au

E1 365 TWARDZIK D R/AU
E2 2 TWARDZIK DAN/AU
E3 15 --> TWARDZIK DANIEL/AU
E4 1 TWARDZIK DANIEL E/AU
E5 121 TWARDZIK DANIEL R/AU
E6 1 TWARDZIK DANILE R/AU
E7 4 TWARDZIK E/AU
E8 7 TWARDZIK ERWIN/AU
E9 2 TWARDZIK F C/AU
E10 18 TWARDZIK F G/AU
E11 6 TWARDZIK G/AU
E12 2 TWARDZIK GEORG/AU

=> s e1-e6 and tuberculosis

L19 21 ("TWARDZIK D R"/AU OR "TWARDZIK DAN"/AU OR "TWARDZIK DANIEL"/AU OR "TWARDZIK DANIEL E"/AU OR "TWARDZIK DANIEL R"/AU OR "TWARDZIK DANILE R"/AU) AND TUBERCULOSIS

=> dup rem l19

PROCESSING COMPLETED FOR L19

L20 15 DUP REM L19 (6 DUPLICATES REMOVED)

=> s l20 and tb38?

L21 3 L20 AND TB38?

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L21 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549126 CAPLUS

DN 131:183862

TI Compounds and methods for immunotherapy and diagnosis of

tuberculosis

IN Reed, Steven G.; Skeiky, Yasir A. W.; Dillon, Davin C.; Campos-Neto, Antonio; Houghton, Raymond; Vedvick, Thomas S.; ***Twardzik, Daniel***
*** R.*** ; Lodes, Michael J.; Hendrickson, Ronald C.

PA Corixa Corporation, USA

SO PCT Int. Appl., 299 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9942076	A2	19990826	WO 1999-US3268	19990217
	WO 9942076	A3	19991014		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,

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KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6592877 B1 20030715 US 1998-72967 19980505
CA 2337638 AA 19990826 CA 1999-2337638 19990217
AU 9927663 A1 19990906 AU 1999-27663 19990217
EP 1071451 A2 20010131 EP 1999-908169 19990217

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

JP 2002503683 T2 20020205 JP 2000-532093 19990217
ZA 9901303 A 20000315 ZA 1999-1303 19990218
AU 765833 B2 20031002 AU 2000-71762 20001122

PRAI US 1998-25197 A 19980218

US 1998-72967 A 19980505
US 1995-523436 B2 19950901
US 1995-533634 B2 19950922
US 1996-620874 B2 19960322
US 1996-659683 B2 19960605
US 1996-680574 B2 19960712
WO 1996-US14674 B2 19960830
AU 1996-71586 A3 19960930
US 1996-730510 B2 19961011
US 1997-818112 A2 19970313
US 1997-942578 B2 19971001
WO 1999-US3268 W 19990217

AB Compds. and methods for inducing protective immunity against
tuberculosis are disclosed. The compds. provided include
polypeptides that contain at least one immunogenic portion of one or more
Mycobacterium ***tuberculosis*** proteins and DNA mols. encoding such
polypeptides. Such compds. may be formulated into vaccines and/or
pharmaceutical compns. for immunization against M. ***tuberculosis***
infection, or may be used for the diagnosis of ***tuberculosis*** .

L21 ANSWER 2 OF 3 USPATFULL on STN

AN 2003:206886 USPATFULL

TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis

IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R. , Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)

PI US 2003143243 A1 20030731

AI US 2002-84843 A1 20020225 (10)

RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1

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Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part
of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED
Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5
Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874,
filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US
1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of
Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED

PRAI WO 1996-US14674 19960830

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for inducing protective immunity against
tuberculosis are disclosed. The compounds provided include
polypeptides that contain at least one immunogenic portion of one or
more M. ***tuberculosis*** proteins and DNA molecules encoding such
polypeptides. Such compounds may be formulated into vaccines and/or
pharmaceutical compositions for immunization against M.
tuberculosis infection, or may be used for the diagnosis of
tuberculosis.

L21 ANSWER 3 OF 3 USPATFULL on STN

AN 2003:195215 USPATFULL

TI Compounds and methods for diagnosis of ***tuberculosis***

IN Reed, Steven G., Bellevue, WA, UNITED STATES

Skeiky, Yasir A.W., Seattle, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

Houghton, Raymond, Bothell, WA, UNITED STATES

Vedvick, Thomas S., Federal Way, WA, UNITED STATES

Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES

Lodes, Michael J., Seattle, WA, UNITED STATES

Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

PI US 2003135026 A1 20030717

AI US 2002-193002 A1 20020710 (10)

RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED,
Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753,
filed on 18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US
1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser.
No. US 1997-818111, filed on 13 Mar 1997, GRANTED; Pat. No. US 6338852
Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996,
ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30
Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed
on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US
1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser.
No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part
of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation

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of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED
DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 54
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 9455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one antigenic portion of one or more M. ***tuberculosis*** proteins, and DNA sequences encoding such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of M. ***tuberculosis*** infection in patients and biological samples. Antibodies directed against such polypeptides are also provided.

=> e lodes michael/au

E1 12 LODES M/AU
E2 117 LODES M J/AU
E3 5 --> LODES MICHAEL/AU
E4 175 LODES MICHAEL J/AU
E5 1 LODES MICHAEL L/AU
E6 3 LODES MICHAEL P/AU
E7 3 LODES RAINER/AU
E8 1 LODES RALPH R/AU
E9 2 LODES U/AU
E10 5 LODESANI C/AU
E11 45 LODESANI M/AU
E12 2 LODESANI MARCO/AU

=> s e1-e6 and tuberculosis

L22 76 ("LODES M"/AU OR "LODES M J"/AU OR "LODES MICHAEL"/AU OR "LODES MICHAEL J"/AU OR "LODES MICHAEL L"/AU OR "LODES MICHAEL P"/AU) AND TUBERCULOSIS

=> dup rem l22

PROCESSING COMPLETED FOR L22

L23 58 DUP REM L22 (18 DUPLICATES REMOVED)

=> s l23 and tb38?

L24 5 L23 AND TB38?

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 5 ANSWERS - CONTINUE? Y/(N):y

L24 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:265269 CAPLUS

DN 134:309685

TI Fusion proteins of Mycobacterium ***tuberculosis***

IN Skeiky, Yasir; Reed, Steven; Houghton, Raymond L.; Mcneill, Patricia D.; Dillon, Davin C.; ***Lodes, Michael L.***

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PA Corixa Corporation, USA

SO PCT Int. Appl., 168 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001024820	A1	20010412	WO 2000-US28095 20001010
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1229931	A1	20020814	EP 2000-970785	20001010
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

PRAI US 1999-158338P P 19991007

US 1999-158425P P 19991007

WO 2000-US28095 W 20001010

AB The present invention relates to fusion proteins contg. at least two

Mycobacterium species antigens. In particular, it relates to nucleic acids encoding fusion proteins that include two or more individual M.

tuberculosis antigens, which increase serol. sensitivity of sera from individuals infected with ***tuberculosis***, and methods for their use in the diagnosis, treatment, and prevention of

tuberculosis infection.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549126 CAPLUS

DN 131:183862

TI Compounds and methods for immunotherapy and diagnosis of

tuberculosis

IN Reed, Steven G.; Skeiky, Yasir A. W.; Dillon, Davin C.; Campos-Neto, Antonio; Houghton, Raymond; Vedvick, Thomas S.; Twardzik, Daniel R.; ***Lodes, Michael J.***; Hendrickson, Ronald C.

PA Corixa Corporation, USA

SO PCT Int. Appl., 299 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

PI	WO 9942076	A2	19990826	WO 1999-US3268 :19990217
----	------------	----	----------	--------------------------

WO 9942076	A3	19991014		
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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,

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MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6592877 B1 20030715 US 1998-72967 19980505
CA 2337638 AA 19990826 CA 1999-2337638 19990217
AU 9927663 A1 19990906 AU 1999-27663 19990217
EP 1071451 A2 20010131 EP 1999-908169 19990217

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

JP 2002503683 T2 20020205 JP 2000-532093 19990217
ZA 9901303 A 20000315 ZA 1999-1303 19990218
AU 765833 B2 20031002 AU 2000-71762 20001122

PRAI US 1998-25197 A 19980218

US 1998-72967 A 19980505
US 1995-523436 B2 19950901
US 1995-533634 B2 19950922
US 1996-620874 B2 19960322
US 1996-659683 B2 19960605
US 1996-680574 B2 19960712
WO 1996-US14674 B2 19960830
AU 1996-71586 A3 19960930
US 1996-730510 B2 19961011
US 1997-818112 A2 19970313
US 1997-942578 B2 19971001
WO 1999-US3268 W 19990217

AB Compds. and methods for inducing protective immunity against
tuberculosis are disclosed. The compds. provided include
polypeptides that contain at least one immunogenic portion of one or more
Mycobacterium ***tuberculosis*** proteins and DNA mols. encoding such
polypeptides. Such compds. may be formulated into vaccines and/or
pharmaceutical compns. for immunization against M. ***tuberculosis***
infection, or may be used for the diagnosis of ***tuberculosis***.

L24 ANSWER 3 OF 5 USPATFULL on STN

AN 2003:206886 USPATFULL

TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis

IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)

PI US 2003143243 A1 20030731

AI US 2002-84843 A1 20020225 (10)

RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,

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filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874, filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US 1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED

PRAI WO 1996-US14674 19960830

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 9257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for inducing protective immunity against ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one immunogenic portion of one or more M. ***tuberculosis*** proteins and DNA molecules encoding such polypeptides. Such compounds may be formulated into vaccines and/or pharmaceutical compositions for immunization against M. ***tuberculosis*** infection, or may be used for the diagnosis of ***tuberculosis***.

L24 ANSWER 4 OF 5 USPATFULL on STN

AN 2003:195215 USPATFULL

TI Compounds and methods for diagnosis of ***tuberculosis***

IN Reed, Steven G., Bellevue, WA, UNITED STATES

Skeiky, Yasir A.W., Seattle, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

Houghton, Raymond, Bothell, WA, UNITED STATES

Vedvick, Thomas S., Federal Way, WA, UNITED STATES

Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES

Lodes, Michael J., Seattle, WA, UNITED STATES

Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

PI US 2003135026 A1 20030717

AI US 2002-193002 A1 20020710 (10)

RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED, Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753, filed on 18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US 1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818111, filed on 13 Mar 1997, GRANTED, Pat. No. US 6338852 Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996, ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30 Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED

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DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 54
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 9455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one antigenic portion of one or more M. ***tuberculosis*** proteins, and DNA sequences encoding such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of M. ***tuberculosis*** infection in patients and biological samples. Antibodies directed against such polypeptides are also provided.

L24 ANSWER 5 OF 5 USPATFULL on STN

AN 2002:185292 USPATFULL

TI Compounds and methods for diagnosis and immunotherapy of
tuberculosis

IN Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Skeiky, Yasir, Seattle, WA, UNITED STATES
Ovendale, Pamela, Everett, WA, UNITED STATES
Jen, Shyian, Seattle, WA, UNITED STATES
Lodes, Michael, Seattle, WA, UNITED STATES

PI US 2002098200 A1 20020725

AI US 2001-793306 A1 20010226 (9)

PRAI US 2000-223828P 20000808 (60)

US 2000-185037P 20000225 (60)

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 51

ECL Exemplary Claim: 1

DRWN 18 Drawing Page(s)

LN.CNT 6182

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** or for inducing protective immunity against ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one immunogenic portion of one or more Mycobacterium proteins and DNA molecules encoding such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of Mycobacterium infection in patients and biological samples. Antibodies directed against such polypeptides are also provided. In addition, such compounds may be formulated into vaccines and/or pharmaceutical compositions for immunization against Mycobacterium infection.

=> e hendrickson ronald/au

E1 8 HENDRICKSON ROGER R/AU

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E2 2 HENDRICKSON RON C/AU
 E3 0 --> HENDRICKSON RONALD/AU
 E4 38 HENDRICKSON RONALD C/AU
 E5 1 HENDRICKSON RONALD CHARLES/AU
 E6 2 HENDRICKSON RONALD H/AU
 E7 1 HENDRICKSON RONALD R/AU
 E8 2 HENDRICKSON RONALD W/AU
 E9 1 HENDRICKSON RONEE/AU
 E10 1 HENDRICKSON ROXANN M/AU
 E11 1 HENDRICKSON ROY/AU
 E12 1 HENDRICKSON ROY V/AU

=> s e2-e8 and tuberculosis

L25 17 ("HENDRICKSON RON C"/AU OR "HENDRICKSON RONALD"/AU OR "HENDRICKS
 ON RONALD C"/AU OR "HENDRICKSON RONALD CHARLES"/AU OR "HENDRICKS
 ON RONALD H"/AU OR "HENDRICKSON RONALD R"/AU OR "HENDRICKSON
 RONALD W"/AU) AND TUBERCULOSIS

=> dup rem l25

PROCESSING COMPLETED FOR L25

L26 11 DUP REM L25 (6 DUPLICATES REMOVED)

=> s l26 and tb38?

L27 3 L26 AND TB38?

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L27 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549126 CAPLUS

DN 131:183862

TI Compounds and methods for immunotherapy and diagnosis of

tuberculosis

IN Reed, Steven G.; Skeiky, Yasir A. W.; Dillon, Davin C.; Campos-Neto,
 Antonio; Houghton, Raymond; Vedvick, Thomas S.; Twardzik, Daniel R.;
 Lodes, Michael J.; ***Hendrickson, Ronald C.***

PA Corixa Corporation, USA

SO PCT Int. Appl., 299 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9942076	A2	19990826	WO 1999-US3268	19990217
WO 9942076	A3	19991014		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 6592877 B1 20030715 US 1998-72967 19980505				

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CA 2337638 AA 19990826 CA 1999-2337638 19990217
AU 9927663 A1 19990906 AU 1999-27663 19990217
EP 1071451 A2 20010131 EP 1999-908169 19990217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

JP 2002503683 T2 20020205 JP 2000-532093 19990217
ZA 9901303 A 20000315 ZA 1999-1303 19990218
AU 765833 B2 20031002 AU 2000-71762 20001122
PRAI US 1998-25197 A 19980218
US 1998-72967 A 19980505
US 1995-523436 B2 19950901
US 1995-533634 B2 19950922
US 1996-620874 B2 19960322
US 1996-659683 B2 19960605
US 1996-680574 B2 19960712
WO 1996-US14674 B2 19960830
AU 1996-71586 A3 19960930
US 1996-730510 B2 19961011
US 1997-818112 A2 19970313
US 1997-942578 B2 19971001
WO 1999-US3268 W 19990217

AB Compds. and methods for inducing protective immunity against
tuberculosis are disclosed. The compds. provided include
polypeptides that contain at least one immunogenic portion of one or more
Mycobacterium ***tuberculosis*** proteins and DNA mols. encoding such
polypeptides. Such compds. may be formulated into vaccines and/or
pharmaceutical compns. for immunization against M. ***tuberculosis***
infection, or may be used for the diagnosis of ***tuberculosis*** .

L27 ANSWER 2 OF 3 USPATFULL on STN

AN 2003:206886 USPATFULL

TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis

IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)

PI US 2003143243 A1 20030731

AI US 2002-84843 A1 20020225 (10)

RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part
of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED
Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996, . .
ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5
Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874,
filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US

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1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of
Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED
PRAI WO 1996-US14674 19960830
DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 37
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 9257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for inducing protective immunity against
tuberculosis are disclosed. The compounds provided include
polypeptides that contain at least one immunogenic portion of one or
more M. ***tuberculosis*** proteins and DNA molecules encoding such
polypeptides. Such compounds may be formulated into vaccines and/or
pharmaceutical compositions for immunization against M.
tuberculosis infection, or may be used for the diagnosis of
tuberculosis.

L27 ANSWER 3 OF 3 USPATFULL on STN

AN 2003:195215 USPATFULL

TI Compounds and methods for diagnosis of ***tuberculosis***

IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

PI US 2003135026 A1 20030717

AI US 2002-193002 A1 20020710 (10)

RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED,
Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753,
filed on 18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US
1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser.
No. US 1997-818111, filed on 13 Mar 1997, GRANTED, Pat. No. US 6338852
Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996,
ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30
Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed
on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US
1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser.
No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part
of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation
of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 54

ECL Exemplary Claim: 1

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DRWN 19 Drawing Page(s)

LN.CNT 9455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds and methods for diagnosing ***tuberculosis*** are disclosed. The compounds provided include polypeptides that contain at least one antigenic portion of one or more M. ***tuberculosis*** proteins, and DNA sequences encoding such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of M. ***tuberculosis*** infection in patients and biological samples. Antibodies directed against such polypeptides are also provided.

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L3 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:265269 CAPLUS

DN 134:309685

TI Fusion proteins of Mycobacterium ***tuberculosis***

IN Skeiky, Yasir; Reed, Steven; Houghton, Raymond L.; Mcneill, Patricia D.;
Dillon, Davin C.; Lodes, Michael L.

PA Corixa Corporation, USA

SO PCT Int. Appl., 168 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2001024820 A1 20010412 WO 2000-US28095 20001010

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1229931 A1 20020814 EP 2000-970785 20001010

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL

PRAI US 1999-158338P P 19991007

US 1999-158425P P 19991007

WO 2000-US28095 W 20001010

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 16 USPATFULL on STN

AN 2003:250508 USPATFULL

TI Heterologous fusion protein constructs comprising a Leishmania antigen

IN Skeiky, Yasir, Bellevue, WA, UNITED STATES

Brannon, Mark, Seattle, WA, UNITED STATES

Guderian, Jeffrey, Lynwood, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA, UNITED STATES (U.S. corporation)

PI US 2003175294 A1 20030918

AI US 2002-98732 A1 20020313 (10)

PRAI US 2001-275837P 20010313 (60)

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 82

ECL Exemplary Claim: 1

DRWN 10 Drawing Page(s)

LN.CNT 6952

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 16 USPATFULL on STN

AN 2003:234838 USPATFULL

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TI Compounds for immunotherapy and diagnosis of ***tuberculosis*** and methods of their use

IN Alderson, Mark Raymond, Bainbridge Island, WA, United States
Dillon, Davin C., Redmond, WA, United States
Skeiky, Yasir A. W., Seattle, WA, United States
Campos-Neto, Antonio, Bainbridge Island, WA, United States

PA Corixa Corporation, Seattle, WA, United States (U.S. corporation)

PI US 6613881 B1 20030902

AI US 1998-73010 19980505 (9)

RLI Continuation-in-part of Ser. No. US 1997-859381, filed on 20 May 1997,
now abandoned

DT Utility

FS GRANTED

EXNAM Primary Examiner: Marschel, Ardin H.

LREP Townsend and Townsend and Crew LLP

CLMN Number of Claims: 13

ECL Exemplary Claim: 1

DRWN 4 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 2860

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 16 USPATFULL on STN

AN 2003:231636 USPATFULL

TI Vaccines

IN Friede, Martin, Farnham, UNITED KINGDOM

Garcon, Nathalie, Wavre, BELGIUM

Gerard, Catherine Marie Ghislaine, Rhode Saint Genese, BELGIUM

Hermand, Philippe, Court-Saint-Etienne, BELGIUM

PA SmithKline Beecham Biologicals s.a. (non-U.S. corporation)

PI US 2003161834 A1 20030828

AI US 2003-379164 A1 20030303 (10)

RLI Division of Ser. No. US 2000-690921, filed on 18 Oct 2000, GRANTED, Pat.

No. US 6544518 Continuation-in-part of Ser. No. WO 2000-EP2920, filed on

4 Apr 2000, UNKNOWN Continuation-in-part of Ser. No. US 1999-301829,

filed on 29 Apr 1999, GRANTED, Pat. No. US 6558670

PRAI GB 1999-8885 19990419

DT Utility

FS APPLICATION

LREP GLAXOSMITHKLINE, Corporate Intellectual Property- UW2220, P.O. Box 1539,
King of Prussia, PA, 19406-0939

CLMN Number of Claims: 29

ECL Exemplary Claim: 1

DRWN 12 Drawing Page(s)

LN.CNT 1737

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 16 USPATFULL on STN

AN 2003:213274 USPATFULL

TI Fusion proteins of mycobacterium ***tuberculosis*** antigens and their uses

IN Reed, Steven G., Bellevue, WA, UNITED STATES

Skeiky, Yasir A., Bellevue, WA, UNITED STATES

Dillon, Davin C., Redmond, WA, UNITED STATES

Alderson, Mark, Bainbridge, WA, UNITED STATES

Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES

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CLMN Number of Claims: 44

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 3101

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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EXNAM Primary Examiner: Swartz, Rodney P.
LREP Townsend and Townsend and Crew LLP
CLMN Number of Claims: 93
ECL Exemplary Claim: 1
DRWN 11 Drawing Figure(s); 13 Drawing Page(s)
LN.CNT 2650
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 16 USPATFULL on STN
AN 2001:157807 USPATFULL
TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis
IN Reed, Steven G., Bellevue, WA, United States
Skeiky, Yasir A. W., Seattle, WA, United States
Dillon, Davin C., Redmond, WA, United States
Campos-Neto, Antonio, Bainbridge Island, WA, United States
Houghton, Raymond, Bothell, WA, United States
Vedvick, Thomas S., Federal Way, WA, United States
Twardzik, Daniel R., Bainbridge Island, WA, United States
PA Corixa Corporation, Seattle, WA, United States (U.S. corporation)
PI US 6290969 B1 20010918
AI US 1997-818112 19970313 (8)
RLI Continuation-in-part of Ser. No. US 1996-730510, filed on 11 Oct 1996
Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996
Continuation-in-part of Ser. No. US 1996-659683, filed on 5 Jun 1996
Continuation-in-part of Ser. No. US 1996-620874, filed on 22 Mar 1996,
now abandoned Continuation-in-part of Ser. No. US 1995-533634, filed on
22 Sep 1995, now abandoned Continuation-in-part of Ser. No. US
1995-523436, filed on 1 Sep 1995, now abandoned

DT Utility
FS GRANTED
EXNAM Primary Examiner: Swartz, Rodney P.
LREP Townsend & Townsend & Crew LLP
CLMN Number of Claims: 98
ECL Exemplary Claim: 1
DRWN 7 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 2142
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 16 USPATFULL on STN
AN 2001:128900 USPATFULL
TI COMPOUNDS FOR DIAGNOSIS OF ***TUBERCULOSIS*** AND METHODS OF THEIR
USE
IN ALDERSON, MARK R., BAINBRIDGE ISLAND, WA, United States
DILLON, DAVIN C., REDMOND, WA, United States
SKEIKY, YASIR A.W., SEATTLE, WA, United States
CAMPOS-NETO, ANTONIO, BAINBRIDGE ISLAND, WA, United States
PI US 2001012888 A1 20010809
US 6555653 B2 20030429
AI US 1998-73009 A1 19980505 (9)
RLI Continuation-in-part of Ser. No. US 1997-858998, filed on 20 May 1997,
ABANDONED
DT Utility
FS APPLICATION
LREP PENNIE & EDMONDS, 1155 AVENUE OF THE AMERICAS, NEW YORK, NY, 100362711

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ECL Exemplary Claim: 1
DRWN 23 Drawing Figure(s); 14 Drawing Page(s)
LN.CNT 6417
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 16 USPATFULL on STN
AN 2002:16583 USPATFULL
TI FUSION PROTEINS OF MYCOBACTERIUM ***TUBERCULOSIS*** ANTIGENS AND
THEIR USES
IN REED, STEVEN G., BELLEVUE, WA, UNITED STATES
SKEIKY, YASIR A., SEATTLE, WA, UNITED STATES
DILLON, DAVIN C., REDMOND, WA, UNITED STATES
ALDERSON, MARK, BAINBRIDGE ISLAND, WA, UNITED STATES
CAMPOS-NETO, ANTONIO, BAINBRIDGE, WA, UNITED STATES
PI US 2002009459 A1 20020124
US 6627198 B2 20030930
AI US 1999-287849 A1 19990407 (9)
RLI Continuation-in-part of Ser. No. US 1998-223040, filed on 30 Dec 1998,
PENDING Continuation-in-part of Ser. No. US 1998-56556, filed on 7 Apr
1998, PENDING Continuation-in-part of Ser. No. US 1998-25197, filed on
18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US 1997-942578,
filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser. No. US
1997-818112, filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969
DT Utility
FS APPLICATION
LREP ANNETTE S. PARENT, TOWNSEND AND TOWNSEND AND CREW LLP, TWO EMBARCADERO
CENTER, 8TH FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 47 Drawing Page(s)
LN.CNT 1524
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 14 OF 16 USPATFULL on STN
AN 2002:9651 USPATFULL
TI Compounds and methods for diagnosis of ***tuberculosis***
IN Reed, Steven G., Bellevue, WA, United States
Skeiky, Yasir A. W., Seattle, WA, United States
Dillon, Davin C., Redmond, WA, United States
Campos-Neto, Antonio, Bainbridge Island, WA, United States
Houghton, Raymond, Bothell, WA, United States
Vedvick, Thomas S., Federal Way, WA, United States
Twardzik, Daniel R., Bainbridge Island, WA, United States
PA Corixa Corporation, Seattle, WA, United States (U.S. corporation)
PI US 6338852 B1 20020115
AI US 1997-818111 19970313 (8)
RLI Continuation-in-part of Ser. No. US 729622 Continuation-in-part of Ser.
No. US 1996-680574, filed on 12 Jul 1996 Continuation-in-part of Ser.
No. US 1996-658800, filed on 5 Jun 1996 Continuation-in-part of Ser. No.
US 1996-620280, filed on 22 Mar 1996, now abandoned Continuation-in-part
of Ser. No. US 1995-532136, filed on 22 Sep 1995, now abandoned
Continuation of Ser. No. US 1995-523435, filed on 1 Sep 1995, now
abandoned
DT Utility
FS GRANTED

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Ovendale, Pamela, Everett, WA, UNITED STATES
Jen, Shyian, Seattle, WA, UNITED STATES
Lodes, Michael, Seattle, WA, UNITED STATES
PI US 2002098200 A1 20020725
AI US 2001-793306 A1 20010226 (9)
PRAI US 2000-223828P 20000808 (60)
US 2000-185037P 20000225 (60)
DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 51
ECL Exemplary Claim: 1
DRWN 18 Drawing Page(s)
LN.CNT 6182
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 16 USPATFULL on STN
AN 2002:156980 USPATFULL
TI METHOD FOR THE ISOLATION OF NOVEL ANTIGENS
IN SKEIKY, YASIR A.W., SEATTLE, WA, UNITED STATES
DILLON, DAVIN C., REDMOND, WA, UNITED STATES
ALDERSON, MARK R., BAINBRIDGE ISLAND, WA, UNITED STATES
PA Jane E. R. Potter, Seattle, WA, 98104 (U.S. corporation)
PI US 2002081579 A1 20020627
AI US 1998-23588 A1 19980213 (9)
DT Utility
FS APPLICATION
LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,
SEATTLE, WA, 98104-7092
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 1815
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 16 USPATFULL on STN
AN 2002:39663 USPATFULL
TI Compositions and methods for the prevention and treatment of M.
tuberculosis infection
IN Reed, Steven G., Bellevue, WA, United States
Skeiky, Yasir A. W., Seattle, WA, United States
Dillon, Davin C., Redmond, WA, United States
PA Corixa Corporation, Seattle, WA, United States (U.S. corporation)
PI US 6350456 B1 20020226
AI US 1998-56556 19980407 (9)
RLI Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
now abandoned Continuation-in-part of Ser. No. US 1997-942578, filed on
1 Oct 1997, now abandoned Continuation-in-part of Ser. No. US
1997-818112, filed on 13 Mar 1997
DT Utility
FS GRANTED
EXNAM Primary Examiner: Swartz, Rodney P
LREP Townsend and Townsend and Crew LLP
CLMN Number of Claims: 10

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Continuation-in-part of Ser. No. US 1999-301829, filed on 29 Apr 1999
PRAI GB 1999-8885 19990419
DT Utility
FS GRANTED
EXNAM Primary Examiner: Scheiner, Laurie
LREP Sutton, Jeffery A., Venetianer, Stephen, Kinzig, Charles M.
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 15 Drawing Figure(s); 12 Drawing Page(s)
LN.CNT 1721
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 16 USPATFULL on STN
AN 2002:254057 USPATFULL
TI Compounds and methods for diagnosis of ***tuberculosis***
IN Reed, Steven G., Bellevue, WA, United States
Skeiky, Yasir A. W., Seattle, WA, United States
Dillon, Davin C., Redmond, WA, United States
Campos-Neto, Antonio, Bainbridge Island, WA, United States
Houghton, Raymond, Bothell, WA, United States
Vedvick, Thomas S., Federal Way, WA, United States
Twardzik, Daniel R., Bainbridge Island, WA, United States
Lodes, Michael J., Seattle, WA, United States
Hendrickson, Ronald C., Seattle, WA, United States
PA Corixa Corporation, Seattle, WA, United States (U.S. corporation)
PI US 6458366 B1 20021001
AI US 1998-72596 19980505 (9)
RLI Continuation-in-part of Ser. No. US 1998-24753, filed on 18 Feb 1998,
now abandoned Continuation-in-part of Ser. No. US 1997-942341, filed on
1 Oct 1997, now abandoned Continuation-in-part of Ser. No. US
1997-818111, filed on 13 Mar 1997 Continuation-in-part of Ser. No. US
1996-729622, filed on 11 Oct 1996, now abandoned Continuation-in-part of
Ser. No. US 1996-680574, filed on 12 Jul 1996, now abandoned
Continuation-in-part of Ser. No. US 1996-658800, filed on 5 Jun 1996,
now abandoned Continuation-in-part of Ser. No. US 1996-620280, filed on
22 Mar 1996, now abandoned Continuation-in-part of Ser. No. US
1995-532136, filed on 22 Sep 1995, now abandoned Continuation of Ser.
No. US 1995-523435, filed on 1 Sep 1995, now abandoned
PRAI WO 1996-US14675 19960830
DT Utility
FS GRANTED
EXNAM Primary Examiner: Swartz, Rodney P.
LREP Townsend & Townsend & Crew, LLP
CLMN Number of Claims: 5
ECL Exemplary Claim: 1
DRWN 23 Drawing Figure(s); 19 Drawing Page(s)
LN.CNT 8789
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 16 USPATFULL on STN
AN 2002:185292 USPATFULL
TI Compounds and methods for diagnosis and immunotherapy of
tuberculosis
IN Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Skeiky, Yasir, Seattle, WA, UNITED STATES

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ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 9257
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 16 USPATFULL on STN
AN 2003:195215 USPATFULL
TI Compounds and methods for diagnosis of ***tuberculosis***
IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES
PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)
PI US 2003135026 A1 20030717
AI US 2002-193002 A1 20020710 (10)
RLI Continuation of Ser. No. US 1998-72596, filed on 5 May 1998, GRANTED,
Pat. No. US 6458366 Continuation-in-part of Ser. No. US 1998-24753,
filed on 18 Feb 1998, ABANDONED Continuation-in-part of Ser. No. US
1997-942341, filed on 1 Oct 1997, ABANDONED Continuation-in-part of Ser.
No. US 1997-818111, filed on 13 Mar 1997, GRANTED, Pat. No. US 6338852
Continuation-in-part of Ser. No. US 1996-729622, filed on 11 Oct 1996,
ABANDONED A 371 of International Ser. No. WO 1996-US14675, filed on 30
Aug 1996, PENDING A 371 of International Ser. No. US 1996-680574, filed
on 12 Jul 1996, ABANDONED Continuation-in-part of Ser. No. US
1996-658800, filed on 5 Jun 1996, ABANDONED Continuation-in-part of Ser.
No. US 1996-620280, filed on 22 Mar 1996, ABANDONED Continuation-in-part
of Ser. No. US 1995-532136, filed on 22 Sep 1995, ABANDONED Continuation
of Ser. No. US 1995-523435, filed on 1 Sep 1995, ABANDONED

DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 54
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 9455
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 16 USPATFULL on STN
AN 2003:95812 USPATFULL
TI Vaccines
IN Friede, Martin, Farnham, UNITED KINGDOM
Garcon, Nathalie, Wavre, BELGIUM
Gerard, Catherine Marie Ghislaine, Rhode Saint Genese, BELGIUM
Hermand, Philippe, Court-Saint-Etienne, BELGIUM
PA SmithKline Beecham Biologicals s.a., Rixensart, BELGIUM (non-U.S.
corporation)
PI US 6544518 B1 20030408
AI US 2000-690921 20001018 (9)
RLI Continuation-in-part of Ser. No. WO 2000-EP2920, filed on 4 Apr 2000

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PA Corixa Corporation, Seattle, WA (U.S. corporation)
PI US 2003147911 A1 20030807
AI US 2003-359460 A1 20030205 (10)
RLI Continuation of Ser. No. US 1999-287849, filed on 7 Apr 1999, ABANDONED
Continuation-in-part of Ser. No. US 1998-223040, filed on 30 Dec 1998,
GRANTED, Pat. No. US 6544522 Continuation-in-part of Ser. No. US
1998-56556, filed on 7 Apr 1998, GRANTED, Pat. No. US 6350456
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969
DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 68 Drawing Page(s)
LN.CNT 3971
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 16 USPATFULL on STN
AN 2003:206886 USPATFULL
TI Compounds and methods for immunotherapy and diagnosis of
tuberculosis
IN Reed, Steven G., Bellevue, WA, UNITED STATES
Skeiky, Yasir A.W., Seattle, WA, UNITED STATES
Dillon, Davin C., Redmond, WA, UNITED STATES
Campos-Neto, Antonio, Bainbridge Island, WA, UNITED STATES
Houghton, Raymond, Bothell, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Hendrickson, Ronald C., Seattle, WA, UNITED STATES

PA Corixa Corporation, Seattle, WA (U.S. corporation)
PI US 2003143243 A1 20030731
AI US 2002-84843 A1 20020225 (10)
RLI Continuation of Ser. No. US 1998-72967, filed on 5 May 1998, PENDING
Continuation-in-part of Ser. No. US 1998-25197, filed on 18 Feb 1998,
ABANDONED Continuation-in-part of Ser. No. US 1997-942578, filed on 1
Oct 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-818112,
filed on 13 Mar 1997, GRANTED, Pat. No. US 6290969 Continuation-in-part
of Ser. No. US 1996-730510, filed on 11 Oct 1996, ABANDONED
Continuation-in-part of Ser. No. US 1996-680574, filed on 12 Jul 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-659683, filed on 5
Jun 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-620874,
filed on 22 Mar 1996, ABANDONED Continuation-in-part of Ser. No. US
1995-533634, filed on 22 Sep 1995, ABANDONED Continuation-in-part of
Ser. No. US 1995-523436, filed on 1 Sep 1995, ABANDONED
PRAI WO 1996-US14674 19960830
DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 37

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